

DRAFT

REMEDIAL INVESTIGATION

REPORT VOLUME VI

HOOKER/RUCO SITE HICKSVILLE, NEW YORK



PREPARED BY:

LEGGETTE, BRASHEARS & GRAHAM, INC.

APRIL 1990 (REVISED AUGUST 1992)

.

APPENDIX 12
Logs of Wells Installed in 1983

WELL LOG

LEGGETTE, BRASHEARS & GRAHAM, INC.

72 DANBURY ROAD WILTON, CT. 08897

OWNER Whiteman, Osterman & Hanna
Former OCC Ruco Division
Hicksville, New York

WELL NO. Site A

DATE 08/24/83 PAGE 1 OF 3 PAGES

	WILTON, CI.			DATE 08/24/83 PAGE 1 OF 3 PAGES
· · · · · · · · · · · · · · · · · · ·		DEPTH I	N PEET	DESCRIPTION
		FROM	TO	
LOCATION _	North side of plant	Grade	0.5	Brown soil consisting of silt and very fine
	east of Tech. Service Lab			sand; no odor.
DATE COMPLETED	September 2, 1983	0.5	2.5	Silt, and very fine sand, brown and subangular
ORMLING COMPANY	R. H. Lauman & Associates, Inc.			pebbles. (Split spoon).
SRILLING METHOD _	Cable Tool	3	5	Pebbles and cobbles; some gravel, very coarse
AMPLING METHOD	Split Spoon & Baile:	:		sand and tan clay. (Bailer sample).
AMPLES XAMINED BY	J. Naso R. Lamonica	5	7	Sand, very fine to coarse, tan to brown,
REFERENCE	above MSL			pebbles, and cobbles. (Split spoon).
ELEVATION OF R.P.	A-1 137.52 ft. MSL A-2 136.73 ft. MSL	5	10	Cobbles, pebbles, and very fine to very coarse,
	ucTion wire-wrapped stainless steel			tan to brown sand. (Bailer sample).
DIAM	2-inch 10	10	12	Sand, very coarse, tan, gravel and pebbles.
	A-2 105 to 112 ft.; A-1 54 to 67 ft. BGL			(Split spoon).
GRAVEL PA	Grade 1	10	15	Gravel, cobbles and very fine to very coarse,
CASING _	2-inch stainless steel			tan to brown sand. (Bailer sample).
_	A-1 10 hrs. air- lift	15	17	Sand, very fine to very coarse, tan to brown,
DEVELOPE	A-2, 3 hrs.			and gravel. (Split spoon).
UMPING TES		15	20	Gravel, cobbles and very fine to very coarse,
DATE_				tan to brown sand. (Bailer sample).
STATIC	A-1 78.46 ft MSL WATER A-2 78.15 ft MSL		22	Sand, very fine to coarse, tan to brown, and
PUMPIN	e WATER			gravel; some pebbles and silt. (Split
FEAST	A-1 1 gpm A-2 7 gpm			spoon).
YIELD	Portland cement - Deep zone: 100 to 80	20	25	Gravel, pebbles, cobbles, very fine to very
remarke: _	feet. Shallow zone: 48 feet			coarse, tan to brown sand and silt.
-	w grade. *Gravel pack -			(Bailer sample).
-	Deep zone: 115 to 101 feet with addition of		27	Sand, very fine to very coarse, tan to brown;

from 101 to 100 feet. Shallow zone: 48 to 80 feet.

silt and gravel; some pebbles. (Split

spoon).

PAGE 2 OF 3 PAGES

DEPTH IN FEET		DESCRIPTION								
FROM	70									
25	30	Sand, very fine to very coarse, tan to brown; gravel and pebbles; some								
		cobbles. (Bailer sample).								
30	32	Sand, fine to medium, tan; some gravel. (Split spoon).								
32	35	Sand, fine to coarse, tan; gravel, and stones; no odor. (Bailer sample								
35	37	Gravel and fine to coarse tan, sand and stones. (Bailer sample).								
37	41	Gravel and fine to coarse tan, sand and stones; some iron oxide;								
		no odor. (Bailer sample).								
41	43	Gravel and fine to coarse tan, sand and stones; some iron oxide;								
		no odor. (Split spoon).								
41	45	Sand, fine to medium, yellowish-tan; some gravel. (Bailer sample).								
45	47	Top 6 inches: Sand, fine to medium, red and tan; trace gravel.								
		Middle 6 inches: Sand, fine to medium, tan; trace gravel.								
		Bottom 6 inches: Sand, fine to medium, red; trace white clay.								
		(Split spoon).								
45	50	Sand, fine to medium, multicolored with red, yellow and gray sandy clay								
		clayey sand; few white-gray clay streaks. (Bailer sample).								
50	52	Sand, fine to medium, and tan, red, yellow, white, gray, clayey sand an								
		sandy clay. (Split spoon).								
50	60	Sand, fine to medium, and tan, red, yellow, white, gray, clayey sand an								
		sandy clay. (Bailer sample).								
60	65	Sand, fine, tan and red, layers of multicolored (red, white, gray,								
		yellow) clay, sandy clay and clayey sand; some fine gravel, trace								
		red silt or clay.								
		HKR								

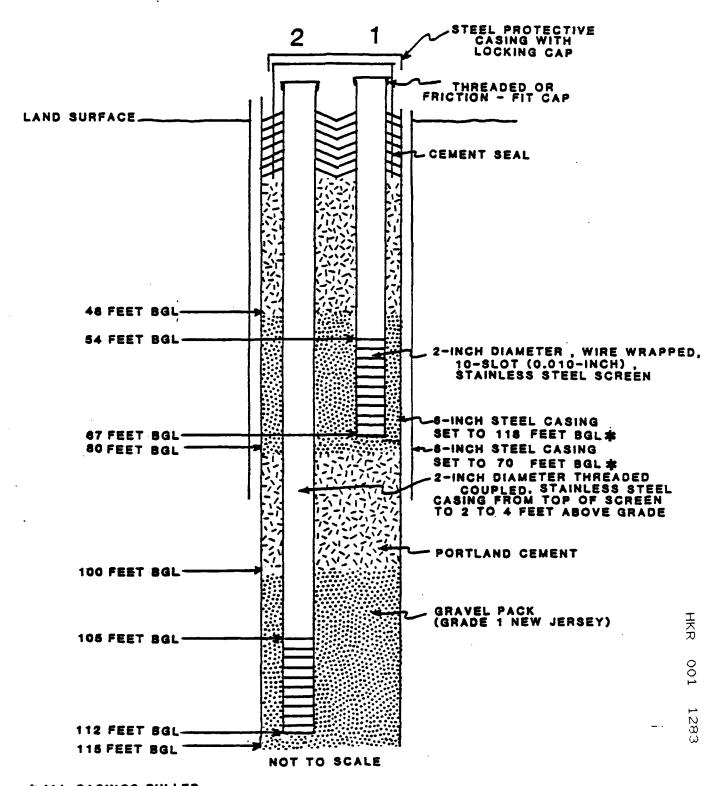
DEPTH IN PEET		DESCRIPTION							
FROM	TO								
	63_	Sand, fine, tan and red, layers of multicolored (red, white, gray,							
		yellow) clay, sandy clay and clayey sand; some fine gravel, trace							
		of red silt, clay and large fragments of conglomeratic oxidized							
		sandstone. (Bailer sample).							
65	70	Sand, fine, some medium and coarse; and streaks fine multicolored							
		sandy clay and clayey sand; some streaks clay. (Bailer sample).							
70	72	Sand, fine to medium; some yellow silt. (Bailer sample).							
72	74	Sand, fine to medium, trace yellow silt.							
		Bottom 1 inch: Multicolored clayey sand. (Split spoon).							
77	86	Sand, fine to medium, tan; streaks multicolored (red, white, yellow)							
		sandy clay, clayey sand and clay, and iron concreted sandstone.							
		(Bailer sample).							
87	89	Sand, fine to medium, tan; streaks white clay, sandy clay and clayey							
		sand. (Bailer sample).							
	89	2 to 3-inch layer of clay, light gray with streaks multicolored sandy							
	•	clay. (Bailer sample).							
90	92	Sand, fine, tan, streaks light gray clay; some mica. (Bailer sample).							
92	106	Sand, fine, tan; some white, trace red clay, sandy clay and clayey							
		sand. (Bailer sample).							
106	109	Sand, fine, some medium, tan; trace white, some red silt and clay.							
		(Bailer sample).							
109	112	Sand, fine to medium, tan; trace red clay.							
112	116	Sand, fine to medium, tan; trace light gray clay. (Bailer sample).							
117	118	Clay, sandy clay and clayey sand, black, gray, white, red, interbedded,							

and stiff.

118 Bottom of borehole.

WHITEMAN, OSTERMAN & HANNA FORMER OCC PLANTSITE HICKSVILLE, NEW YORK

CONSTRUCTION OF MONITOR WELLS AT SITE A



ALL CASINGS PULLED DURING WELL INSTALLATION

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GEOPHYSICAL WELL LOG

LEGGETTE, BRASHEARS & GRAHAM
CONSULTING GROUND-WATER GEOLOGISTS
72 DANBURY ROAD
WILTON, CT. 06897

OWNER Whiteman, Osterman & Hanna LOCATION Former OCC Ruco Division Plantsite Hicksville, New York WELL NO. A DRILLING METHOD Cable Tool DEPTH DRILLED 118 feet DEPTH LOGGED 114 feet DEPTH SCALE 20 feet/inch LOGGED BY Robert Lamonica		DATE August 29, 1983 DRILLER R. H. Lauman & Associates, Inc. REFERENCE POINT Land Surface ELEVATION 134.2 feet above mean sea level. CASING 8-inch to 60 feet; 6-inch to 118 feet; HOLE DIAMETER 6-inch (inner casing) REMARKS Static water level about 58.5 feet below grade.
G A M M A R A Y	Geol- ogist's Log	
		SAND, FINE SAND, MEDIUM SAND, COARSE GRAVEL GRAVEL GRAVEL SCREEN SETTING

LEGGETTE, BRASHEARS & GRAHAM, INC. CONSULTING GROUND-WATER GEOLOGISTS

> 72 DANBURY ROAD WILTON, CT. 08897

	_
Former OCC Ruco Division	
Hicksville, New York	

'i	WILTON, CT.			DATE 09/07/83 PAGE 1 OF 4 PAGES				
		DEPTH-	M PEET	DESCRIPTION				
		FROM	70					
LOCATION	Front of parking	0	2	Topsoil, brown, silt, pebbles no odor.				
-	lot near road			(Split spoon).				
GOMPLETED	September 14, 1983	Grade	5	Gravel, very fine to medium (1/8 to 2 inch),				
DANLLING COMPANY	R. H. Lauman & Associates, Inc.			round to subangular, multicolored; and very				
DRILLING METHOD -	Cable Tool			fine to very coarse, subangular to angular				
IAMPLING	Bailer and split			tan sand; some brown silt, trace of broken				
AMPLES	J. Naso, R. Lamonio	a,		bricks and glass fragments.				
REFERENCE	Land Surface			Discharge = Muddy brown. (Bailer sample).				
ELEVATION OF R.P.	B-1 132.65 ft. MSL B-2 132.64 ft. MSL	5	7	Gravel, fine to medium, subangular quartz; sand,				
WELL CONSTR				very fine to very coarse; brown.				
_	2-inchesor No. 10			(Split spoon).				
1877100	104-86 ft.; 69-49 ft.	5	10	Gravel, very fine to medium (1/8 to 1 inch),				
GRAVEL P	Crade 1 New			round to subangular, white; some multi-				
. GASING	2-inch stainless steel			colored, and very fine to medium, subangular				
DEVELOP	B-1 24 hrs. air-			to angular, tan sand; little brown silt.				
1	B-2 4 hrs. air- lift			Discharge - Buff brown. (Bailer sample).				
TUMPING TES		10	12	Sand, very fine to very coarse, tan; gravel,				
DURATI	A#			very fine to very coarse. (Split spoon).				
	WATER B-1 77.86 ft MSL	10	15	Gravel, fine to medium, round to subangular,				
1	-B-2-77.92-Eb-HSL e water			multicolored and very coarse to fine,				
1	B-1 1.5 gpm			angular, tan sand.				
r	Portland cement -			Discharge = Buff brown. (Bailer sample).				
HEMARKS:	Shallow zone: 44 feet	15	17	Sand, very fine to very coarse tan; silt; gravel,				
· · · · · · · · · · · · · · · · · · ·	*Gravel Pack Setting			fine to medium; brown. (Split spoon).				
<u> </u>	Deep Zone: 104 to 81 feet, additional 1 fe	ot						
į	of very fine sand pag	Z.K.						

from 80 feet to 81 feet. Shallow zone: 70 to 44 feet.

WELL NO. Site R

DEPTH IN FEET		DESCRIPTION								
FROM	70									
		and years fine to medium								
15	20	Sand, very fine to very coarse, angular, tan, and very fine to medium								
	<u> </u>	(1/8 to 1 inch) round to subangular, multicolored gravel.								
		Discharge = Buff brown. (Bailer sample).								
20	22	Sand very fine to very coarse, subangular to angular; gravel, fine to								
		medium, rounded; brown. (Split spoon).								
20	25	Sand, very fine to very coarse, angular, tan, and very fine to fine								
		(1/8 to 3/4 inch), subangular, multicolored gravel; little iron								
		oxide. (Bailer sample).								
25	27	Sand, fine to medium, trace coarse; trace of silt; brown with gray								
-		streaks. (Split spoon).								
25	30	Sand, very fine to coarse, subangular to angular, tan and very fine to								
		medium, round to subangular, multicolored gravel; little iron								
		oxide.								
		Discharge = Buff brown. (Bailer sample).								
30	32	Gravel, medium to fine; sand, very fine to very coarse; trace of								
		silt. (Split spoon).								
30	35	Sand, very fine to coarse, subangular to angular, tan and very fine to								
		medium, round to subangular, multicolored gravel; little iron								
		oxide.								
		Discharge = Buff brown. (Bailer sample).								
34.5	36.5	Sand, fine to medium; some coarse; gravel, fine; brown; trace of red								
		clay. (Split spoon).								
35	40	Gravel, very fine to medium, round to subangular, some angular, multi-								
		colored, and very fine to very coarse,								

angular to subangular, tan, sand.

Discharge = Buff brown. (Bailer sample).

PAGE 2 OF 4 PAGE

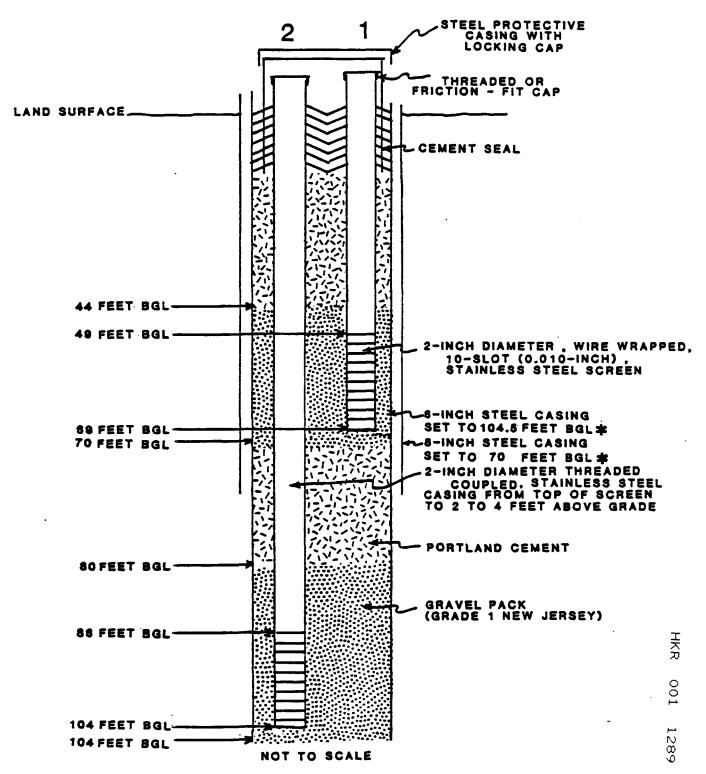
DEP'TH IN FEET		DESCRIPTION								
FROM	70									
40	42	Sand, fine to very coarse; gravel, fine to medium; brown; trace of								
		iron oxide staining. (Split spoon).								
40	45	Sand, very fine to coarse, subangular tan and very fine to fine (1/8 to								
		3/4 inch), round to subangular, multicolored gravel; little brown								
		silt.								
		Discharge = Buff brown. (Bailer sample).								
45	46.5	Sand, fine to coarse, brown; trace of gravel; much iron oxide staining								
		at 46.3 feet. (Split spoon).								
46.5	47	Sand, fine to medium, gray; trace of silt; trace of clay, gray-white.								
		(Split spoon).								
45	50	Sand, very fine to fine, buff and gray; some white, red and yellow sand								
	_	clay.								
		Discharge = Grayish-yellowish buff. (Bailer sample).								
50	52	Sand, fine, some medium; trace of silt; trace of clay, gray-white; no								
		odor. (Split spoon).								
50	55	Clayey sand; sand, very fine to fine, gray, with some white clay with								
		little red and yellow streaks.								
		Discharge = Buff yellow. (Bailer sample).								
55	60	Clayey sand; sand, very fine to fine, gray, with some white clay; trace								
		streaks of yellow clayey sand and iron oxide spots.								
		Discharge = Buff yellow.								
60	65	Sand, very fine, tan; some grayish-white clay with little yellow clay,								
		few sandstone fragments, trace of iron oxide. Grades to very fine								

Discharge = Buff brown.

DEPTH IN FEET		DESCRIPTION								
FROM	70	• .	<u> </u>							
65	72	Sand, very fine, tan with little brown silt and trace of muscovite	e; some							
		thin black and gray clay layers interbedded with gray and li-	ttle							
		orange (iron oxide) clayey sand.								
		Discharge = Buff brown.								
72	78	Sand, very fine to fine, orange; little brown silt, trace muscovi	te.							
		Discharge = orange.	···							
78	84	Clayey sand, very fine, gray and orange; trace of very fine, black	k sand							
		and muscovite. Discharge grades from buff to gray-brown.								
84	88	Sand, very fine, gray-tan; some gray-tan silt.								
		Discharge = Grayish-tan.								
90	94	Sand, very fine, gray-tan; some gray-tan silt.								
		Discharge = Gray-tan.	··-							
96	104	Sand, very fine, buff; little buff silt.								
		Discharge = tan.	· · ·							
· 	104.5	Bottom of borehole.								
•										
<u> </u>			<u> </u>							
			돗 -							
			0							

WHITEMAN, OSTERMAN & HANNA FORMER OCC PLANTSITE HICKSVILLE, NEW YORK

CONSTRUCTION OF MONITOR WELLS AT SITE B



ALL CASINGS PULLED DURING WELL INSTALLATION

GEOPHYSICAL WELL LOG

LEGGETTE, BRASHEARS & GRAHAM
CONSULTING GROUND-WATER GEOLOGISTS
72 DANBURY ROAD
WILTON, CT. 06897

OWNER Whiteman, Osterman & Hanna LOCATION Former Occidental Chemical Corporat: Plantsite, Hicksville, New York WELL NO. B DRILLING METHOD Cable tool DEPTH DRILLED 104 feet DEPTH LOGGED 20 feet/inch LOGGED SY M. Susca and C. Fricke GAMMA RAY						Geol-	DRILLE REFERI ELEVAT CASING HOLE D	ENCE	POINT O fee TER Stati	R. Gra 130.5 t of 6-in	H. La de feet 8 inc ch to	h: 104	Associa mean se	6 inch		
	Cons	cale: tant: Rate:		count secon	ds:/minu	nch		ogist's Log							2	
								00000		_ :						-
									10 86 66 66 70 70 100							MEDIUM COARSE L E N N G

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LEGGETTE, BRASHEARS & GRAHAM, INC. CONSULTING GROUND-WATER GEOLOGISTS

TO BANBURY BOAR

72 DANBURY ROAD WILTON, CT. 06897

Former OCC Ruco Division

Bicksville, New York

WELL NO. Site C.

DATE 09/10/83 PAGE 10F 4 PAGES

•				DATE 09/10/83 PAGE 10F 4 PAGES
		- DEPTH	IN PEET	DESCRIPTION
t .	I	FROM	70	
LOCATION_	Behind building 2	4	8	Cobbles, round, multicolored and very coarse to
_	near shallow sump			very fine, subangular to round, multi-
DATE GOMPLETED	September 23, 1983			colored gravel; some very coarse to very
	R. H. Lauman &	1		
COMPANY _	Associates, Inc.	— —		fine, tan sand.
PRILLING METHOD -	Cable Tool			Discharge = Muddy tan.
	Bailer and split	i .		
AETHOD _	spoon	8	15	Sand, very coarse to very fine, tan and very
SAMPLES XAMINED BY.	C. Fricke			coarse to very fine, subangular to round,
AFFERENCE	Land surface	Į.	1 1	
POINT _	133.3 ft. above MSI C-1 135.62 ft. MSL			multicolored gravel; little very fine,
ELEVATION OF R.P.	C-2 135.60 ft. MSL			multicolored cobble.
SCREEN.	wire-wrapped			Discharge = Muddy tan.
OIAM	2-inch 10	15	20	Gravel, very fine, angular, multicolored, and
	50 to 70 ft.;			very fine to medium, tan sand; some rounded,
GRAVEL P	0			multicolored cobbles and coarse, rounded
SIZE	2-inch			to subangular multicolored gravel.
GASING _	C-1 11 hrs. airlift			Discharge = Muddy tan.
	C-2 64 hrs. airlift		25	Sand, very fine to medium, tan and very fine
PUMPING TES	None			angular multicolored gravel; some medium,
. DATE_	OH			subangular, multicolored gravel and coarse,
· STATIC	C-1 78.68 ft. MSI			tan sand; little multicolored quartz
	& WATER			cobbles, trace silt.
FEAGE	C-1 1 gpm			Discharge = Cloudy tan.
YIELD_	C-2 6 gpm	25	30	Sand, very fine to coarse, tan and very fine to
remarks: _	Portland cement - Deep zone: 74-103			
_	Shallow zone: 42.5-gr			fine rounded multicolored, gravel; trace T brown silt.
	*Gravel pack setting Deep zone: 103-124			brown silt.
_	Shallow zone: 74-42.3			Discharge: Cloudy brown.

OWNER	Whiteman, Osterman	& Hanna,	Former OCC	Ruco Division,	Hicksville, New Y
			,		
WELL NO.	Site C			PAG	E 2 OF 4 PAGE

DEPTH IN FEET		DESCRIPTION					
FROM	70						
30	35	Sand, very fine, some very coarse, tan and very fine to fine rounded					
		to subangular, multicolored gravel; trace brown silt.					
		Discharge = Muddy brown.					
35	38	Sand, very fine to very coarse tan and very fine to medium, subangular					
		to angular, multicolored gravel; some angular oxidized sandstone					
		fragments, little brown silt.					
		Discharge = Muddy orange-brown.					
38	40	Gravel, very fine to medium, angular, multicolored, and very coarse,					
		tan sand; some oxidized sandstone nodules, little silt.					
		Discharge = Orange-brown.					
40	45	Gravel, very fine to fine, subangular to angular, multicolored and very					
		fine to very coarse, tan sand; some oxidized sandstone nodules;					
		little silt.					
		Discharge = Muddy brown.					
45	50	Sand, very fine to fine, angular tan; little brown silt and 1-inch to					
		1 1/2-inch layers of very fine to fine orange clayey sand with					
		1/8-inch layer oxidized sandstone interbedded, trace very fine sub					
•		angular white gravel.					
		Discharge = Buff-brown.					
	50	Sand, coarse to very fine, gray; some gray and black (oily sheen) clayer					
		sand; mild odor.					
		Discharge = Gray.					
50	55	Sand, very coarse to very fine, orangish-tan; some orange, gray, white					
		and red interbedded clayey sand and sandy clay.					

Discharge = Muddy brown.

DEP'TH IN FEET		DESCRIPTION
FROM	70	
	55A	Sand, medium to very fine, gray; some gray, little yellow and trace
		red clay and sandy clay interbedded with white and black clayey
		sand; fishy odor.
	ļ	Discharge = Gray.
	55B	Sand, coarse to very fine, gray and black, gray, and red, some
	ļ	yellowish-tan interbedded sandy clays.
	ļ	Discharge = Gray.
55	60	Clay, and sandy clay, gray, yellow, black, white and orangish-red,
		interbedded; some fine to very fine gray sand; chemical odor.
		Discharge = Gray.
60	65	Sand, very fine, some very coarse and gray; little (interbedded) gray
		and black clay with yellow sandy clay.
· · · · · · · · · · · · · · · · · · ·		Discharge = Gray.
65	70	Sandy, very fine to fine tan and interbedded white, yellow, red, orange
		and trace pink, clay.
		Discharge = Grayish-tan.
70	80	Clay, gray; little very fine, gray clayey sand; trace oxidized sand-
	<u> -</u>	stone nodules.
		Discharge = Gray.
80	85	Clay, gray; some orange, red and gray sandy clay, few oxidized sandstone
		nodules.
		Discharge = Gray-tan.
85	90	Sandy clay, very fine sand, buff brown with gray clay; trace nodules
		of sandstone.

Discharge = Buff-brown.

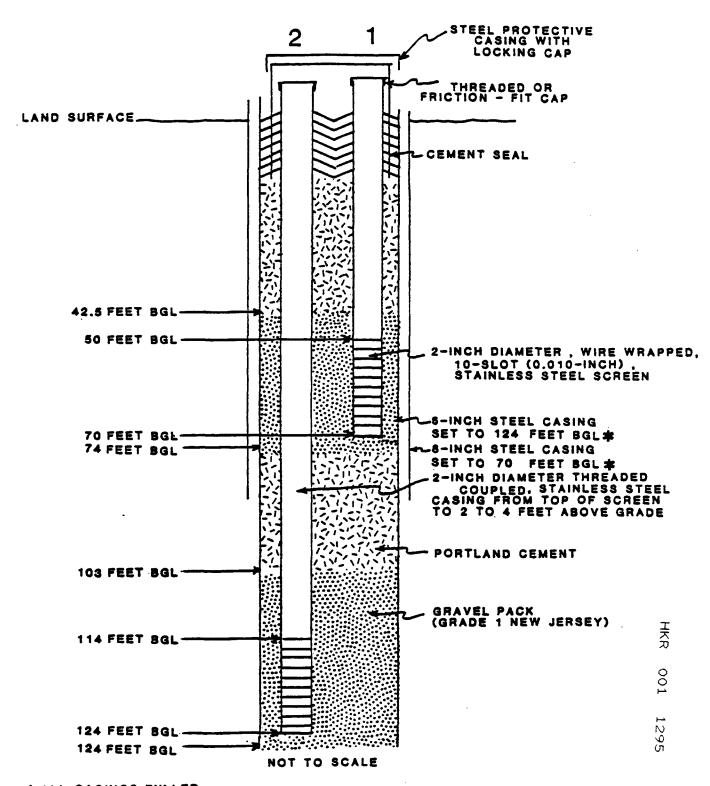
OWNER Whiteman, Osterman & Hanna, Former OCC Ruco Division, Hicksville, New You well NO. Site C PAGE 4 OF 4 PAGES

*

DEPTH IN FEET		DESCRIPTION	
FROM	TO	•	
90	104	Sandy clay, interbedded layers gray, yellow and black; some very fi	ne,
		tan sand and tan clay.	
	104	Clayey sand, very fine, buff-gray.	
104	108	Sand, very fine, buff to gray and gray clay; few lenses of gray san	dy
		clay.	···
		Discharge = Buff to gray.	<u></u>
108	114	Sand, very fine, gray and gray clay.	
		Discharge = Buff-gray.	
115	120	Sand, very fine, buff-gray; some gray clay.	
		Discharge = Buff-gray.	
122	124	Sand, fine, tan; some silt.	
·	124.5	Bottom of borehole.	
			
	·		
		T	_
		001	
		12	

WHITEMAN, OSTERMAN & HANNA FORMER OCC PLANTSITE HICKSVILLE, NEW YORK

CONSTRUCTION OF MONITOR WELLS AT SITE C



*ALL CASINGS PULLED DURING WELL INSTALLATION

WELL LOG

LEGGETTE, BRASHEARS & GRAHAM, INC. CONSULTING GROUND-WATER GEOLOGISTS

> 72 DANBURY ROAD WILTON, CT. 06897

Whiteman, Osterman & Hanna OWNER-Former OCC Ruco Division Hicksville, New York

WELL NO. Test Boring C

DATE 1/13/84 PAGE 1 OF 2 PAGES

		DEPTH	H FEET	DESCRIPTION
		FROM	70	DESCRIPTION
LOCATION	In shallow sump	0	2	Sand, very fine to medium, white and brown.
	north of building 2			(Split spoon).
DATE		0	5	
COMPLETED_	July 8, 1983 R.H. Lauman &	<u> </u>	3	Sand, very coarse, tan; gravel, medium to coarse,
DRILLING	Associates, Inc.			angular to subangular quartz; no odor.
DRILLING	Cable tool - 6 inch			(Bailer sample).
SAMPLING	Split Spoon and Bailer.	5	7	Sand, fine to very coarse, brown; gravel fine to
AMPLES	J. Naso			to medium; no odor. (Split spoon).
REFERENCE POINT	Sump bottom	10	12	Sand, medium to coarse, with some fine, tan;
ELEVATION OF R.P.	127.4 ft. above MSL			gravel, fine to very coarse; slight odor.
WELL CONSTRU SCREEN TYPE	etion None			(Split spoon).
DIAM	SLOT NO	10	15	Gravel, fine to very coarse; sand, fine to very
8ETTING				coarse, tan. (Bailer sample).
GRAVEL PAG		15	17	Gravel, fine to very coarse; large subangular
· CASING				pebbles; sand, fine to very coarse; trace
DEVELOPME	INT			of clay, gray. (Split spoon).
_		15	20	Gravel, medium to very coarse; sand, fine to
'UMPING TEST	•			very coarse; trace of clay, white and gray.
DITARUE				(Bailer sample).
STATIC V	48.6 ft. below	20	22	Sand, coarse to very coarse with some fine, tan;
PUMPING LEVEL	WATER			gravel, fine to very coarse, angular to sub-
YIELD				angular quartz; trace of clay, red. (Split
REMARKS:	6-inch casing with-			spoon).
	drawn and test	25	27	Sand, very coarse to fine, tan; gravel, fine to
	boring grouted to			medium; trace of clay, red, white, gray.
	surface.			(Split spoon).
			ا الماليات	

WELL NO. Test Boring C

PAGE 2 OF 2 PAGES

DEPTH IN FEET		CESCRIPTION
FROM	70	
30	32	Sand, fine to coarse, brown; gravel fine to medium; iron oxide staining
		at 32 feet. (Split spoon).
30	35	Gravel, fine to very coarse, angular to subangular quartz; sand, fine to
		very coarse; iron oxide staining. (Bailer sample).
35	37	Sand, fine to medium, tan to white; gravel, fine to coarse; brown; no
		odor. (Split spoon).
35	40	Sand, medium to very coarse with some fine; tan. (Bailer sample).
40	42	Sand, fine to coarse, tan to gray; trace of clay, gray. (Split spoon).
40	45	Sand, fine to medium, with some very fine, tan. (Bailer sample).
45	47	Sand, fine to medium, with some very fine, tan; trace of clay, gray; no
		odor. (Split spoon).
47	50	Sand, medium to coarse, some fine, gray; some gravel; pieces of clay,
		brown.
50	52	Top 6 inches: Sand, very fine to medium, with some coarse, light gray;
		streaks of clay, red, gray, tan.
		Bottom 6 inches: Sand, very fine to medium, dark gray; trace of clay
		and silt, gray. (Split spoon).
52	54	Sand, very fine to medium, gray-green; clay, white, gray, yellow.
		(Split spoon).
		HKR —
		001

WELL LUG

LEGGETTE, BRASHEARS & GRAHAM, INC. CONSULTING GROUND-WATER GEOLOGISTS

> 72 DANBURY ROAD WILTON, CT. 08897

OWNER - Whiteman, Osterman & Hanna Former OCC Ruco Division Hickswille, New York

WELL NO. Site D

PAGES
·
•
gravel, and
l. (Bailer
gravel and
.to redder
sand and tan
d; trace silt;
spoons.
silt.
and stones;
tan sand; no
an, gravel,
r. (Split

DEP'TH IN FEET		DESCRIPTION			
FROM	10	·			
22	25	Gravel: fine to coarse, tan sand, and stones (iron oxide stains).			
		(Bailer sample).			
25	27	Gravel, sand, and stones. (Split spoon).			
27	30	Gravel. stones, and fine to coarse sand; trace silt; layer of silty clay			
		with sand and stones; 3 to 4-inch concretions of iron oxide and			
		staining on quartz grains. (Bailer sample).			
30	32	Sand, fine to coarse; trace gravel. (Split spoon).			
32	35	Gravel; fine to very coarse tan sand, and stones; some iron oxide con-			
		cretions, trace silt and mica; faint odor. (Bailer sample).			
35	37	Top 7 inches: Gravel, and fine to coarse sand, with iron oxide			
		concretions.			
		Bottom 5 inches: Sand, fine to medium, tan with trace layer of red and			
		white clay. (Split spoon).			
35	37	Gravel, and fine to medium, tan sand, with trace layer of red and			
		white clay, iron oxide concretions. (Bailer sample).			
38	40	Sand, fine to coarse; trace gravel and pink clay. (Bailer sample).			
40	42	Top 10 inches: Sand, fine to medium, tan; trace silt.			
		Bottom 5 inches: Sand, fine to medium; trace silt and red clay; no			
		odor. (Split spoon).			
42	45	Sand, fine to medium; some red and white clayey sand, trace of silt and			
		gravel; no odor. (Bailer sample).			
45	47	Top 5 inches: Sand, fine to medium, some coarse; trace red silt.			
		Bottom 5 inches: Sand, fine to medium, some coarse; trace of red silt			
		and red clay in matrix. (Split spoon).			

WELL NO. Site D

DEPTH	IN PEET	DESCRIPTION
FROM	10	
45	50	Sand, fine to medium, multicolored, and red, white and yellow clay,
		sandy clay and clayey sand. (Bailer sample).
50	52	Sand, fine to medium, tan, and red and white clayey sand, fine to
		medium, 1-inch streaks white sandy clay and clay; no odor. (Split
		spoon).
52	54	Sand, fine to medium, tan with gray, red and yellow sandy clay, clayey
		sand and solid clay streaks. (Bailer sample).
54	55	Sand, fine to medium, tan. (Bailer sample).
55	57	Sand, fine to medium, tan. (Split spoon).
57	60	Sand, fine to medium, tan; trace red clay. (Bailer sample).
60	62	Sand, fine to coarse, tan; some red clay. (Bailer sample).
62	64	Sand, fine to medium, tan; some gray clayey sand. (Bailer sample).
64	65	Sandy clay, light gray; some iron oxide and tan sand. (Bailer sample).
65	67	Sand, very fine to fine, light gray to buff white, and silt; trace
		gray clay. (Bailer sample).
67	73	Silt, and very fine, light gray to gray sand; trace yellow and gray
		clay. (Bailer sample).
73	77	Silt, yellow; very fine, gray sand, and gray and yellow clay. (Bailer
		sample).
77	80	Silty clay, gray, some yellow and tan. (Bailer sample).
80	85 ·	Silty clay, gray, some yellow and tan. (Bailer sample).
85	87	Sand, very fine to medium, red to tan, and silt. (Split spoon).
85	90	Sand, very fine to medium, red to tan and silt. (Bailer sample).
90	95	Sand, very fine to coarse, tan, and red and gray clay. (Bailer sample)

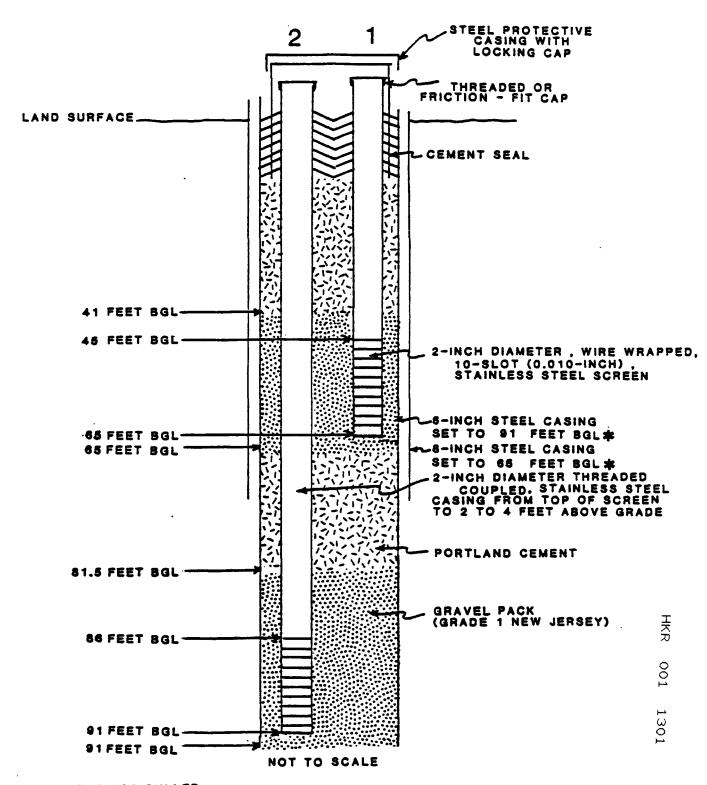
^{95 100} Silty clay, reddish-brown; some very fine to medium sand.

PAGE 3 OF 3 PAGES

¹⁰⁰ Bottom of borehole.

WHITEMAN, OSTERMAN & HANNA FORMER OCC PLANTSITE HICKSVILLE, NEW YORK

CONSTRUCTION OF MONITOR WELLS AT SITE D



ALL CASINGS PULLED DURING WELL INSTALLATION

GEOPHYSICAL WELL LOG

LEGGETTE, BRASHEARS & GRAHAM
CONSULTING GROUND-WATER GEOLOGISTS
72 DANBURY ROAD
WILTON, CT. 06897

OWNER Whiteman, Osterman & Hanna	DATE August 16, 1983
LOCATION Former OCC Ruco Division Plantsite	DRILLER R. H. Lauman & Associates Inc.
Hicksville, New York	REFERENCE POINTGrade
WELL NO. D	ELEVATION 130.1 feet above mean sea level.
DRILLING METHODCable_Tool	CASING 67 feet of 8-inch: 91 feet of 6-inch
DEPTH DRILLED 91 feet	HOLE DIAMETER 6-inch to 91 feet
DEPTH LOGGED 91 feet	
DEPTH SCALE 20 feet/inch	REMARKS Static water level is about 55 feet
LOGGED BY John Naso, Jr.	· below grade.
<u>GAMMA RAY</u>	Geol- ogist's Log
SCALE: 7.5 counts/second/inch	
TIME CONSTANT: 5 seconds	
LOGGING RATE: 25 feet/minute	
Increasing Radiation	
	- 1938
	SILT
	SAND, FINE
	SAND, MEDIUM
	SAND, COARSE
	200
	GRAVEL
	800 COBBLE
	SCREEN
	SETTING

VYELL LUG

LEGGETTE, BRASHEARS & GRAHAM, INC. CONSULTING GROUND-WATER GEOLOGISTS

72 DANBURY ROAD

Split Spoon & Bailer

R. Lamonica and

J. Naso

IAMPLING

METHOD

AMPLES

WILTON, CT. 08897

Whiteman, Osterman & Hanna OWNER-Former OCC Ruco Division Hicksville, New York

WELL NO. Site E

split spoon (1.6 - 1.5)).

DATE

06/23/83 PAGE 10F 4PAGES DEPTH IN PEET DESCRIPTION FROM TO .6 Between sump No. 3 Sand, very coarse to medium with some fine, tan; LOCATION . and storage shed strong paint-like odor. DATE .6 2.0 Sand, medium to fine with some very fine, dark August 10, 1983 COMPLETED_ R. H. Lauman & DRILLING brown; very strong paint-like odor. Associates, Inc. COMPANY_ DRILLING Cable Tool (Above material from shoveled hole and METHOD .

Sand, medium to coarse, light tan, and medium TAMINED BY_ Grade 129.3 ft. REFERENCE to coarse with some fine gravel. above MSL POINT E-1 131.96 Ft. MSL ELEVATION E-2 131.68 ft. MSL sample). OF R.P.

WELL CONSTRUCTION wire-wrapped 4.0 5.0 SCREEN Gravel, medium to coarse, and medium to very stainless steel TYPE 2-inch coarse, with some fine; tan and gray sand; SLOT NO. DIAM

4.0

2.0

46 - 66 ft.; silt; rubber-like material, very strong 75 - 90 ft. SETTING_ Grade 1

odor. (Bailer sample). GRAVEL PACK New Jersey* SIZE 2-inch 5.d 6.5 Sand, coarse to very coarse, with some medium stainless steel

E-1 14 hrs. bailer and fine, light brown to tan; gravel, and 8 hrs. bailer DEVELOPMENT E-2-6 hrs. airlift silt. (Split spoon).

*UMPING TEST 6.5 10.0 Gravel, well-rounded; stones; and fine to very None DATE.

coarse, tan-brown sand. (Bailer sample). E-1 77.40 ft. MS

10.d 11.5 Sand, fine to medium, some coarse, tan-brown; STATIC WATER E-2 77.31 ft. MS LEVEL gravel and small stones. (Split spoon). PUMPING WATER

FEACL E-I I gpm 11.5 15.0 Sand, fine to very coarse tan-brown; well-E-2 2 gpm

Cement rounded, gravel and stones. (Bailer sample) 90-103 feet REMARKS: ___ 71-65.75 feet 15.q 17.0 Sand, fine to coarse tan-brown; well-rounded, 42.8-grade.

Sand pack gravel and stones, trace of white clay Deep zone: 90 to 71 feet. and silt. (Split spoon).

Shallow zone: 65.75 to 42.8 feet.

Stick-up -

Shallow: 2.7 feet. Deep: 2.4 feet.

WELL	NO.

	•
PEET	DESCRIPTION
TO	

DEPTH IN PEET		DESCRIPTION			
FROM TO					
17.0	20.0	Stones, (1-inch to 3-inch), rounded gravel and fine to very coarse,			
		tan, sand. (Bailer sample).			
20.0	22.0	Gravel; well-rounded, quartzitic stones and fine to very coarse, brown			
		sand. (Split spoon).			
22.0	25.0	Gravel; well-rounded, quartzitic stones and fine to very coarse, brown			
		sand. (Bailer sample).			
25.0	27.0	Gravel; well-rounded, quartzitic stones and fine to very coarse, brown			
		sand. (Split spoon).			
27.0	30.0	Gravel, fine to very coarse; 1-inch rounded quartzitic pebbles and			
		fine to very coarse, tan sand. Discharge = Orange-rust. (Bailer			
		sample).			
30.0	32.0	Sand, fine to very coarse, light tan to tan; trace white, red and gray			
		clay and fine gravel. (Split spoon).			
32.0	35.0	Sand, fine to very coarse, tan and fine to very coarse, subangular			
		quartz gravel; rust. (Bailer sample).			
35.0	37.0	Sand, very fine to coarse, and fine to medium, brown; gravel; changing			
		to whitish-tan gravel at 36.7 feet; trace white and gray clay in			
		tip sample. (Split spoon).			
37.0	40.0	Sand, fine to very coarse, tan; brown to orange silt and fine, sub-			
		angular quartz gravel; (Bailer sample). Discharge = orange-red.			
40.0	42.0	Sand, fine to coarse, tan to light gray; trace gray clay. (Split			
		spoon).			
42.0	44.0	Sand, fine to very coarse, tan and light gray, and silt. (Bailer sample)			
44.0	45.0	Sand, fine to medium, gray, and gray and yellow clay (dries to tan).			

(Bailer sample).

WELL NO. Site E

PAGE 3 OF 4 PAGE

DEPTH IN FEET		DESCRIPTION					
FROM	TO	·					
45.0	47.0	Sand, fine to medium, gray, angular to subangular; trace gray clay.					
		(Split spoon).					
47.0	48.0	Sand, fine to coarse, angular to subangular, gray; some gray and white					
		clay. (Bailer sample).					
48.0	50.0	Sand, fine to coarse, gray; some gray clay; oily sheen, very strong					
		odor of oil and chemicals.					
50.0	52.0	Sand, fine to medium, some coarse, gray; 1-inch lens gray clay; sheen					
		and odor. (Split spoon). (Moved off-site July 1, 1983 - returned					
		July 20, 1983).					
50.5	52.5	Sand, fine to medium, gray and white banded; some clay and silt; top					
		1-inch oily with strong odor; sample color getting lighter with					
		depth; odor throughout; dry. (Split spoon).					
52.5	54.0	Sand, fine to medium, gray; some tan, plastic clay. (Bailer					
		sample).					
54.0	56.0	Sand, fine to medium, gray; some clay and silt. (Split spoon).					
56.0	59.5	Sand, fine to medium, light gray, quartzitic; trace biotite mica; oily					
		sheen and strong odor, which appears to be getting weaker with					
		depth; occasional clay and silt lumps. (Bailer sample).					
59.5	61.5	Sand, fine to medium, gray; trace silt and clay. (Split spoon).					
61.5	64.0	Sand, medium to very coarse, some fine, gray; strong odor; no oily sheen					
64.0	65.0	Sand, medium to very coarse, some fine, gray; few lumps gray clay and					
		sandy clay. (Bailer sample).					
65.0	70.0	Sand, fine to very coarse, gray; silt; fine gravel; slight odor.					

OWNER Whiteman, Osterman & Hanna, Former OCC Ruco Division, Hicksville, New Yor

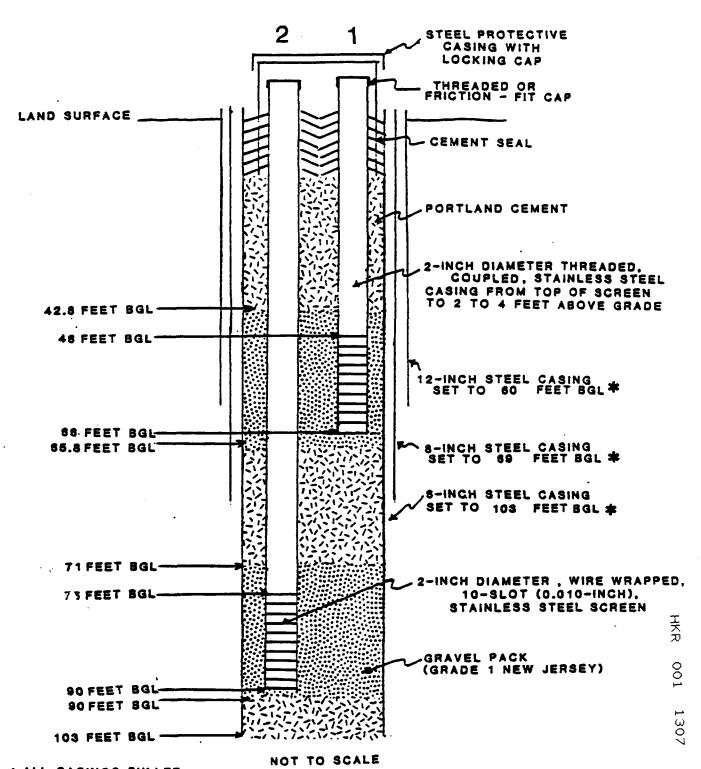
WELL NO. Site E

PAGE 4 OF 4 PAGES

DEPTH	IN PERT	DESCRIPTION
FROM	70	
70.0	72.0	Sand, very fine to coarse, gray, and silt; odor. (Bailer sample).
72.0	74.0	Sand, very fine, light gray, and silt. (Bailer sample).
74.0	80.0	Sand, very fine to fine, with some medium, gray to light gray, and silt;
		trace gray clay; odor. (Bailer sample).
80.0	81.7	Sand, very fine to fine, gray; silt; clay; odor. (Bailer sample).
81.7	83.7	Sand, very fine to fine, gray; silt; clay; odor. (Split spoon).
83.7	103	Sand, very fine to fine, gray; clay; silt; slight odor. (Bailer
		sample).
	103.3	Bottom of borehole.
		HKR -
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WHITEMAN, OSTERMAN & HANNA FORMER OCC PLANTSITE HICKSVILLE, NEW YORK

CONSTRUCTION OF MONITOR WELLS AT SITE E



#ALL CASINGS PULLED DURING WELL INSTALLATION

GEOPHYSICAL WELL LOG

LEGGETTE, BRASHEARS & GRAHAM
CONSULTING GROUND-WATER GEOLOGISTS
72 DANBURY ROAD
WILTON, CT. 06897

OWNER Whiteman, Osterman & Hanna LOCATION Former OCC Ruco Division Plantsite Hicksville, New York WELL NO. E ORILLING METHOD Cable Tool DEPTH DRILLED 103.3 feet DEPTH LOGGED 94 feet DEPTH SCALE 20 feet/inch LOGGED BY John Naso	DATE August 10, 1983 DRILLER R. H. Lauman & Associates, Inc. REFERENCE POINT Grade ELEVATION 129.3 feet above mean sea level CASING 60 feet of 12-inch; 70 feet of 8-inch; 103.3 feet of 6-inch. HOLE DIAMETER 6-inch to 101.1 feet REMARKS Static water level about \$4.5 feet below grade.
SCALE: 7.5 counts/second/inch TIME CONSTANT: 5 seconds LOGGING RATE: 25 feet per minute Increasing Radiation	Geol- ogist's Log
	CLAY SILT
	CLAY SILT SAND, FINE SAND, MEDIUM SAND, COARSE GRAVEL
	SCREEN SETTING

WELL LUG

LEGGETTE, BRASHEARS & GRAHAM, INC.

72 DANBURY ROAD WILTON, CT. 06897

OWNER Whiteman, Osterman & Hanna Former OCC Ruco Division Hicksville, New York

WELL NO. Site F

DATE 9/27/83 PAGE 1 OF 3 PAGES

	WILTON, CT.	08897		DATE 9/27/83 PAGE 1 OF 3 PAGES
		DEPTH	H PEET	DESCRIPTION
		FROM	TO	
LOCATION	South end of plant	Grade	0.5	Fill; stones, sand and silt.
	near sump No. 2 & railroad tracks.	0.5	1.5	Sand, silt and gravel; some stains.
JATE COMPLETED_	September 27, 1983	1.5	5.0	Stones, gravel, fine to coarse sand and brown
DRILLING COMPANY	R. H. Lauman & Associates, Inc.			silt; no odor. (Bailer sample).
DRILLING METHOD	Cable Tool	5	7	Sand, fine to coarse; brown gravel and silt;
AMPLING	Split Spoon and Bailer			trace clay. (Split spoon).
AMPLES	R. Lamonica & C. Fricke	5	10	Gravel; stones; fine to coarse, brown sand and
REFERENCE POINT	above MSL			brown silt; no odor. (Bailer sample).
ELEVATION	F-1 131.79 ft. MSL F-2 131.56 ft. MSL	10	12	Gravel; fine to coarse sand, and brown to tan
SCREEN TYPE	stainless steel			silt; trace white clay in tip of spoon.
DIAM	2-inch 10			(Split spoon).
SETTING	F-1 47.5-67.5 ft. bgl F-2 90-110 ft. bgl	15	17	Sand, fine to coarse; gravel and brown silt.
GRAVEL PA	Grade 1			(Split spoon).
CASING	2-inch stainless steel	15	20	Sand, fine to coarse; tan; gravel and stones.
	F-1 14 hrs. bailer			(Bailer sample).
	F-2 5 hrs. airlift	20	22	Top 6 inches: Sand, fine to coarse, tan and
TUMPING TEST	None			gravel.
BTAB				Middle 6 inches: Sand, fine to coarse;
STATIC	F-1 /6.99 It. MS			brown silt and gravel.
	WATER			Bottom 6 inches: Sand, fine to medium; some
LEVEL.	F-1 1 gpm F-2 5 gpm			tan to gray silt.
YIELD	Sand pack: 80.5-			(Split spoon).
Pemarks:	111 ft.; 71-35 ft. bg	1 20	25	Gravel, fine to very fine, some medium; multi-
	Grout: 80.5-71 ft. bg	1		colored and very coarse to coarse, some
_	35 ftgrade.			medium sand; trace brown silt and iron stain.
			L	

Discharge = muddy brown. (Bailer sample).

WELL NO.

Site F

PAGE 2 OF 3 PAGES

DEP'TH IN FEET		DESCRIPTION			
FROM	то				
25	30	Sand, medium to fine, some coarse, angular, tan; and very fine, some			
		fine, multicolored, subangular gravel. (Bailer sample).			
30	35	Sand, medium to coarse, some fine, tan; very fine to fine multicolored			
		subangular gravel and iron oxide nodules; some iron oxide			
		concretions and brown silt; trace subangular multicolored cobbles.			
		Discharge = Orange-brown. (Bailer sample).			
35	40	Sand, medium to coarse, some fine to very fine, tan to brown and multi-			
		colored fine gravel; some gray sandy clay; slight odor. (Bailer			
		sample).			
40	42	Clay, sandy, gray interbedded with fine gray clayey sand and thin (1-inc			
		band of iron oxide; slight odor. (Split spoon).			
40	45	Clay, sandy, gray and gray silt; slight odor. (Bailer sample).			
45	48	Silt; fine, with some medium and coarse sand; gray clay and iron oxide			
		stains; slight odor. (Bailer sample).			
48	50	Silt, olive with fine sand and trace clay interbedded with plastic gray			
		clay and micaceous gray sandy clay; strong odor. (Bailer sample).			
	51	Sand, fine to very coarse, silt and plastic gray clay; no odor.			
		(Bailer sample).			
51.5	53.5	Sand, fine, silty, brown-gray, and sandy, brown-gray silt; no odor.			
		(Split spoon).			
50	55	Sand, fine to very coarse and tan silt; layers of fine sand and olive-			
		brown silt; trace gravel; some odor. (Bailer sample).			
55	60	Sand, fine and tan silt; slight "sweet" odor. (Bailer sample).			
55	58	Sand, fine to medium and tan silt; no odor (Bailer sample).			
58	60	Sand, fine to medium; trace white-gray silt; no odor. (Bailer sample).			

OWNER Whiteman, Osterman & Hanna, Former OCC Ruco , Hicksville, New York

WELL NO. Site F

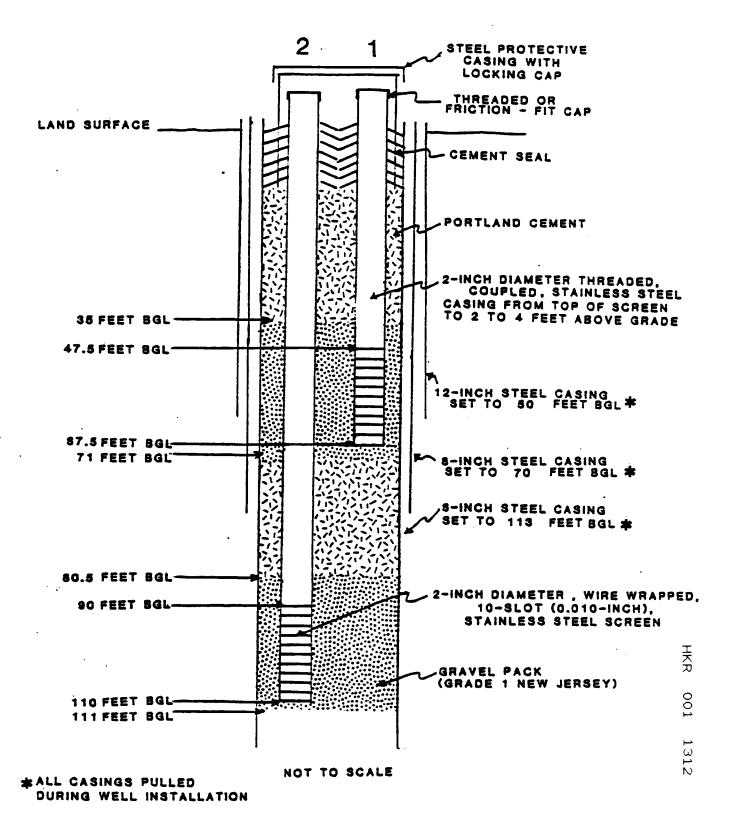
PAGE 3 OF 3 PAGES

DEPTH IN FEET		DESGRIPTION
FROM	TO	
60	62	Sand, fine to medium; trace white-gray silt, slight odor. (Bailer sample
62	64	Sand, fine to medium; white gray; trace silt; very strong odor; no oil.
		Discharge = Dark gray-brown. (Bailer sample).
64	65	Sand, fine to coarse; trace gray silt; strong odor, no oil; (Bailer
		sample).
	65	Sand, fine to coarse, olive silt and iron oxide concretions; strong odor.
		(Bailer sample).
65	67	Sand, fine to very coarse; fine gravel and olive silt; some gray clay
		and sandy gray clay; strong odor. (Bailer sample).
	68	Clay, sandy, gray and fine olive sand; strong odor (Bailer sample).
68	70	Clay, sandy and silty, gray; strong odor. (Bailer sample).
70	82	Sand, clayey and silty, fine, gray, some olive; strong odor.
		(Bailer sample).
82	84	Sand, silty, fine, olive and gray, runny; strong odor. (Bailer sample).
84	90	Sand, silty, fine, olive and gray, runny; strong odor. (Bailer sample).
90	95	Sand, very fine, subangular and gray silt; few biotite flakes; chemical
•		odor. (Bailer sample).
95	100	Sand, very fine to fine subangular and gray silt; some muscovite, little
		tourmaline(?) (black particles); odor. (Bailer sample).
100	110	Sand, very fine to fine, subangular and gray silt; some muscovite and
		feldspar; little tourmaline(?) (black particles); strong odor in clay
		lumps. (Bailer sample).
110	113	Sand, medium. (Bailer sample).
· · · · · · · · · · · · · · · · · · ·	113	Clay, gray and tan, layers on bottom of bailer.
	I	

113 Bottom of borehole.

WHITEMAN, OSTERMAN & HANNA FORMER OCC PLANTSITE HICKSVILLE, NEW YORK

CONSTRUCTION OF MONITOR WELLS AT SITE F



LEGGETTE, BRASHEARS & GRAHAM, INC.

GEOPHYSICAL WELL LOG

LEGGETTE, BRASHEARS & GRAHAM
CONSULTING GROUND-WATER GEOLOGISTS
72 DANBURY ROAD
WILTON, CT. 06897

:

OWNER Whiteman, Osterman & Hanna LOCATION Former OCC Ruco Division Plantsite Hicksville, New York WELL NO. F DRILLING METHOD Cable Tool DEPTH DRILLED 114 feet DEPTH LOGGED 112 feet DEPTH SCALE 20 feet/inch LOGGED BY Cintra Fricke	
GAMMARAY SCALE: 10 counts/second/inch TIME CONSTANT: 3 seconds LOGGING RATE: 21 feet/minute Increasing Radiation	Geol- ogist's Log
	CLAY SILT SAND, FINE SAND, MEDIUM SAND, COARSE GRAVEL COBBLE SCREEN
	100 SETTING

LEGGETTE, BRASHEARS & GRAHAM, INC.

CONSULTING GROUND-WATER GEOLOGISTS

72 DANBURY ROAD WILTON, CT. 06897 Former OCC Ruco Division Hicksville, New York

WELL NO. Test Boring F

DATE 1/16/84 PAGE 1 OF 2 PAGES

		DEPTH I		DATE 1/10/84 PAGE 1 OF 4 PAGES
		FROM		DESCRIPTION .
	Dation of over to	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	TO	Top 1-inch of sump bottom is a dry gray filter
LOCATION	Bottom of sump no. southern most corne	Ē		Tob 1-Tuen or somb poccom is a gil digi fiffet
	of plant.	Γ		cake; 1-inch to 1-inch is brown-stained
DATE Completed	July 19, 1983			sand; 1-inch to 2-inches is clean sand and
	R. H. Lauman &			
COMPANY	Associates, Inc.			gravel.
DRILLING	Cable tool - 6 inch	1	2.5	Sand, fine to coarse; gravel and silt; brown;
METHOD	Split Spoon		2.3	Said, The Co Coarse, graver and sire, brown,
MPLING	and Bailer.			(Top 6 inches stained dark, bottom has cle
167HOD	R. Lamonica &			
AMPLES Vamined by	J. Naso			appearance); strong odor. (Split spoon).
	Grade:			
.eperence Point	(sump bottom)	0	11.5	Sand, fine to very coarse; gravel; stones (to
ELEVATION	113.8 It. above MSL			3-inches); brown; slight odor. (Bailer
3F R.P				3-Inches/; Drown; Silynt Odor. (Baller
LL CONSTRUCT SCREEN	None			sample).
TYPE				
Page 1	\$LOT NO	11.5	13.3	Sand, fine to coarse; gravel; trace of silt;
DIAM	3601 MO			h
				brown; some black staining; mild odor.
GRAVEL PACK				(Split spoon).
SIZE				(opaac spoots)
		13.5	15	Sand, fine to coarse; gravel; brown; very slight
CASING				
	_			odor. (Bailer sample).
DEVELOPMEN	T			
		15	17	Sand, fine to coarse; with some brown silt and
PUMPING TEST				a trace of gravel; no odor. (Split spoon)
DATE				The state of desired was asset (along along)
		17	20	Sand, very fine to coarse; some gravel; discha-
DURATION	Approx. 39 ft.	·		
STATIC WA				is dark gray, getting darker with depth;
LEVEL				
PUMPING Y	VATER			black stones causing color.
16765	· · · · · · · · · · · · · · · · · · ·	20	22	Sand, fine to medium, and silt, with streaks o
TIELD				
	6 inch casing			gray clay; some odor. (Split spoon).
REMARKS:				
1	removed and hole	22	25	Sand, very fine, gray, with gray silt and clay
				(Ballan comple)
Ć	grouted to surface.			(Bailer sample).
_				
			.	~
			L	

OWNER Whiteman, Osterman & Hanna, Former OCC Ruco Division, Hicksville, New Yo

WELL NO. Test Boring F PAGE 2 OF 2 PAGES

25.8 27.8 Sand, very fine, gray, with gray and yellow silt and clay. (28 30 Sand, very fine, gray, with gray silt and clay. (Bailer samp 30 32 Sand, very fine to medium, light gray to white; trace of silt	Split spoo
28 30 Sand, very fine, gray, with gray silt and clay. (Bailer samp 30 32 Sand, very fine to medium, light gray to white; trace of silt	Split spoo
30 32 Sand, very fine to medium, light gray to white; trace of silt	
	le).
	. (Split
spoon).	
32 35 Sand, very fine to fine, with medium sand, tan to white; silt	and clay
gray and white. (Bailer sample).	
35 37 Sand, very fine to medium, gray; trace of gray silt and clay;	slight
odor. (Split spoon).	
37 40 Sand, very fine to medium gray; silt; clay, gray to dark gray	. (Baile:
sample).	
40 45 Sand, very fine to medium, gray; water discharge was foamy an	nd had
slight odor.	
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	— XR —
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APPENDIX 13

Records of Water Withdrawals From Ruco Wells

NEW SOUTH ROAD, HICKSVILLE, NEW YORK 11802 PHONE (516) 931-8100 TWX 510 221-1871

M/A 1034 AH:hmc
January 18, 1972

Long Island Well Application No. W-1442 Hooker Chemical Corp./Ruco Division

New York State Department of Environmental Conservation Region 1 Water Supply Management Unit 373 Maple Avenue Westbury, New York 11590

Attention: Mr. Walter G. Waterman

Chief, Water Supply Management Unit

Gentlemen:

Please be advised that Well Application No. W-1442has not been pumped since October 1970. We have no plans of using this well in the future except in an extreme emergency, such as prolonged town water supply failure.

Very truly yours,

A. Heuer Maintenance Supervisor

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. Jew York State Department of Environmental Conservation

Hedry 1 Data (2011) Commissioner

Region 1 Water Supply Management Unit 373 Maple Avenue Westbury, New York 11590

January 17, 1972

Long Island Well Application No. W-1442 Hooker Chemical Co.

Hooker Chemical Co. New South Road Hicksville, New York 11802

Attention Mr. A. Heuer, Maintenance Supervisor

Gentlemen:

Our present records indicate that you have failed to report well water pumpage for the months of April through December, 1971.

Please be advised that pumpage is to be reported each month to this Department.

You are requested to forward the delinquent reports to this office immediately and monthly thereafter.

Very truly yours

WALTER G. WATERMAN

Chief, Water Supply Management Unit

ASC:sm

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April 19, 1971

State of New York Water Resources Commission 3703 Maple Avenue Westbury, N.Y.

Ra: Wells No. N3450, 5368, 5390

Gentlemen:

The water consumption of the three wells for the month of March, 1971, was:

Well No. M5450 - Not Running Well No. M5368 - Not Running Well No. M5390 - Not Running

Yory truly yours,

March 12, 1971

State of New York Water Resources Commission 3703 Maple Avenue Westbury, N.Y.

Re: Wells No. N3450, 5368, 5390

Gentlemen:

The water consumption of the three wells for the month of February, 1971, was:

Well No. N5450 - Not Running Well No. N5363 - Not Running Well No. N5390 - Not Running

Very truly yours,

A. Heuer, Hmintenenace Supervisor

October 13, 1970

State of New York Water Resources Commission 3703 Maple Avenue, Westbury, N.Y.

Re: Well No. N3450, 5368, 5390

Gom tlaman:

The water consumption of the three wells for the month of September 1970, was:

Well No. N3450

Not Running

Mell No. N5368

Hot Running

Well No. N5390

Not Romaing

Very truly yours,

Saptember 3, 1970

State of New York Water Resources Commission 3703 Mapla Avenue, Westbury, N.Y.

Re: Well No. N3450, 5368, 5390

Gentlemen:

The water consumption of the three wells for the month of August, 1970:

Well No. N-3540

Not Running

Well No. N-5368

Present Meter Reading - 359,725,700
Previous Meter Reading - 359,506,800
213,900

Wall No. N-5390

Not Running

Very truly yours,

State of New York Mater Resources Commission 3703 Maple Avenue, Westbury, N.Y.

Re: Well No's N3450, 5368, 5390

Contlemen:

The water consumption of the three wells for the months of June and July, 1970, was:

Wall No. N3540

Not Running

Well No. N5368

Previous Nater Reading - 359,506,800
Previous Nater Reading - 359,101,300
405,000

Well No. MS390

Not Running

Very truly yours,

A. Hauer Haintenance Supervisor

Mustra

长R 001 1324

May 8, 1970

State of New York Water Resources Commission 3703 Maple Avenue Westbury, N.Y.

Re: Well No's, N3450, 5368, 5390

Contlemen:

The water consumption of the three wells for the month of April, 1970 was:

Well No. N3540

Not Running

Well No. N5368

Present Meter Reading - 353,704,700
Previous Meter Reading - 353,295,100
409,600

No.11 No. N5390

Not Running

Very truly yours,

June 9, 1970

State of New York Water Resources Commission 3703 Maple Avenue Westbury, N.Y.

Re: Well No's, N3450, 5368, 5390

Gentlemen:

The water consumption of the three wells for the month of May 1970 was:

Well No. N3540

Not Ruming

Well No. N5368

Present Meter Reading - 359,101,300 Previous Meter Reading - 358,704,700

358,704,700

Well No. N5390

Not Running

Very truly yours,

April 9, 1970

State of New York Water Resources Commission 3703 Maple Avenue Westbury, N.Y.

Re: Well No's. N3450, 5368, 5390

Gentlemen:

The water consumption of the three wells for the month of March, 1970 was:

Nell No. N3540

Not Running

Well No. N5368

Present Meter Reading - 358,295,100 Previous Hater Reading -357,766,300 523,300

Nell No. N5390

Not Running

Very truly yours,

A. Heuer Minimum Supervisor

DOBKET RUCO DIVISION

NEW SOUTH ROAD, HICKSVILLE, NEW YORK 11802 PHONE (516) 931-8100 TWX 510 221-1871

March 6, 1970

State of New York Water Resources Commission 3703 Maple Avenue Westbury, N.Y.

Re: Well No's N3450, 5368, 5390

Gentlemen:

The water consumption of the three wells for the Month of February, 1970 was:

Well No. N3540

Not Running

Well No. N5368

Present Meter Reading - 357,766,300
Previous Meter Reading - 357,358,000
408,300

Well No. N5390

Not Running

Very truly yours,

State of New York Water Resources Commission 3703 Maple Avenue Westbury, N.Y.

Re: Well No's N3450, 5368, 5390

Gentlamen:

The water consumption of the three wells for the month of January, 1970 was:

Well No. N3540

Not Running

8655K. ok 11ek

Provious Meter Reading - 357,352,000 Provious Meter Reading - 356,761,000 597,000

Well No. N5390

Not Running

Very truly yours,

State of New York Water Resources Commission 3703 Maple Ave. Westbury, N.Y.

Re: Well No's N3450, 5368, 5390

Gentlamen:

The water consumption of the three wells for the month of December, 1969 was:

Well No. N3450

Not Running

Well No. N5368

Present Meter Reading - 356,761,000

Previous Meter Reading - 356,155,900

605,100

Well No. N5390

Not Running

Vary truly yours,

December 2, 1969

State of New York Water Resources Cosmission 3703 Haple Avenue Westbury, N.Y.

Re: Well No.'s N3450, 5368, 5390

Gantlamen:

The water consumption of the three wells for the month of November, 1969 was:

Well No. N3450

Not Running

Well No. N5368

Present Meter Reading - 356,155,900
Previous Meter Reading - 355,294,900
351,000

Well No. N5390

Not Running

Very truly yours,

A. Hewer Maintenance Supervisor

de/HA

November 7, 1969

State of New York
Water Resources Commission
3703 Maple Avenue
Westbury, N.Y.

Re: Well No.'s N3450, 5368, 5390

Gentlemen:

The water consumption of the three wells for the month of October, 1969 was:

Well No. N3450

Not Running

Well No. N5368

Meter being repaired.

₩±11 No. N5390

Not Running

Very truly yours,

A. Hauer Maintenance Supervisor

de /HK

October 8, 1969

State of New York Water Resources Commission 3703 Haple Avenue Westbury, N.Y.

Re: Well No.'s N3450, 5368, 5390

Gentlemen:

The water consumption of the three wells for the month of September, 1969 was:

Mell No. N3450

Not Running

Well No. N5368

Present Meter Reading - 355,294,900
Provious Meter Reading - 354,440,500
854,400

Mell No. N5390

Not Running

Very truly yours,

A. Heuer Maintenance Supervisor

Ali/30

September 3, 1969

State of New York Water Resources Commission 3703 Hapla Avenue Westbury, N.Y.

Re: Well No.'s N3450, 5368, 5390

Gantlamen:

The water consumption of the three wells for the month of August, 1969 was:

Nell No. N345D

Not Running

Mall No. N5368

Present Meter Reading - 354,440,500 Previous Neter Reading - 353,587,200 653,300

Wall No. N5390

Not Running

Very truly yours,

A. Hauer Maintenance Supervisor

ф

August 5, 1969

State of New York Water Resources Commission 3703 Maple Avenue Westbury, N.Y.

Re: Well No.'s N3450, 5368, 5390

Centlemen:

The water consumption of the three wells for the months of June and July 1969 was:

Well No. N3450

Not Running

Well No. N5368

Present Meter Reading - 353,587,200 Previous Meter Reading - 352,314,200 1,273,000

Well No. N5390

Not Running

Very truly yours,

A. Heuer Maintanance Supervisor

AH/js

HKR 001 1335

June 5, 1909

State of New York Water Resources Commission 3703 Maple Avenue Hestbury, N.Y.

Re: Well No.'s N3450, \$368, 5390

Gentlemen:

The water consumption of the three wells for the month of May, 1969, was:

Well No. #3450

Not Running

Well No. N5363

Present Meter Reading - 352,314,200
Previous Meter Reading - 351,511,500
802,700

#ell No. N5390

Not Running

Very truly yours,

Hay 2, 1969

State of New York Water Resources Commission 3703 Haple Avenue Westbury, N.Y.

Re: Well No.'s N3450, 5368, 5390

Gentlemen:

The water consumption of the three wells for the month of April, 1969 was:

Well No. N3450

Not Running

Well No. NS368

Present Neter Reading - 351,511,500

Previous Meter Reading - 350,791,000

720,500

Well No. NS390

Not Running

Very truly yours,

A. Heuer Maintenance Supervisor

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April 7, 1969

State of New York Water Resources Commission 3703 Maple Avenue, Westbury, N.Y.

Re: Well No.'s N3450, 5368, 5390

Gentlemen:

The water consumption of the three wells for the month of March, 1969 was:

Well No. N3450

Not Running

Well No. N5368

Present Meter Reading - 350,791,000
Previous Meter Reading - 349,801,900
949,100

Well No. N5390

Not Running

Very truly yours,

A. Heuer Maintanance Supervisor

All/ab

March 5, 1969

State of New York Water Resources Commission 3703 Maple Avenue, Westbury, N.Y.

Re: Well No.'s N3450, 5368, 5390

Gentlemen:

The water consumption of the three wells for the month of February, 1909 was:

Well No. N3450

Not Running

Wall No. N5368

Present Meter Reading - 349,801,900
Previous Neter Reading - 349,094,900
717,000

Wall No. N5390

Not Running

Very truly yours,

A. Heuer Haintenance Supervisor

Ali/ab

February 4, 1969

State of New York Water Resources Commission 3703 Maple Avenue, Westbury, N.Y.

Re: Well No.'s N3450, 5368, 5390

Gentlemen:

The water consumption of the three wells for the month of January, 1969 was:

Well No. N3450

Not Running

Well No. N5368

Present Neter Reading - 349,094,900
Previous Meter Reading - 348,069,700
925,200

Well No. N5390

Not Running

Very truly yours,

A. Heuer Maintenance Supervisor

de/HA

January 8, 1969

State of New York Water Resources Commission 3703 Maple Avenue, Westbury, N.Y.

Re: Well No.'s N3450, 5368, 5390

Gentlemen:

The water consumption of the three wells for the month of December, 1968 was:

Well No. N3450

Not Running

Well No. N5368

Present Meter Reading - 348,069,700 - Previous Heter Reading - 347,012,400 - 1,057,300

Well No. N5390

Not Running

Very truly yours,

December 6, 1968

State of New York Water Resources Commission 3703 Maple Avenue, Westbury, N.Y.

Re: Well No's N3450, 5368, 5390=

Gentlesen:

The water consumption of the three wells for the month of November, 1968 was:

Well No. N3450

Not running

Well No. N5368

Present Heter Reading - 347,012,400
Previous Meter Reading - 346,058,000
954,400

Well No. N5390

Not running

Very truly yours,

November 7, 1968

State of New York
Water Resources Commission
3703 Maple Avenua
Westbury, N.Y.

Re: Well No's N3450, 5368, 5390

Centlemen:

The water consumption of the three wells for the month of October, 1968 was:

Wall No. N3450

Not Running

Well No. N5368

Present Meter Reading - 346,058,000
Previous Meter Reading - 344,850,700
1,207,300

Well No. N5390

Not Running

Very truly yours,

October 1, 1968

State of New York Water Resources Commission 3703 Maple Avenue Westbury, N.Y.

Re: Well No's N3450, 5368, 5390

Gentlemen:

The water consumption of the three wells for the month of September, 1968 was:

Well No. N3450

Not Running

Well No. N5368

Present Neter Reading - 344,850,700

Previous Meter Reading - 343,702,200

1,148,500

Well No. N5390

Not Running

Very truly yours,

September 6, 1968

State of New York Water Resources Commission 3703 Naple Avenue Westbury, N.Y.

Re: Wall No's N3450, 5368, 5390

Gentlemen:

The water consumption of the three wells for the month of August, 1968 was

Not Running Well No. N3450

Well No. N5368 Present Meter Reading - 343,702,200

Provious Meter Reading - 342,508,200

1,194,000

Well No. N5390 Not Running

Very truly yours,

A. lieuer Maintananca Supervisor State of New York
Water Resources Commission
3703 Haple Avenue
Westbury, N.Y.

Re: Well No's N3450, 5368, 5390

Gentlemen:

The water consumption of the three wells for the months of June and July, 1968 was:

Well No. N3450

Not Running

Well No. N5368

Present Neter Reading - 342,508,200
Previous Meter Reading - 339,956,400

2,551,800

Wall No. N5390

Not Running

Very truly yours,

State of New York Mater Resources Commission 3703 Maple Avenue, Westbury, N.Y.

Re: Well No's N3450, 5368, 5390

Gentlemen:

The water consumption of the three wells for the month of May, 1963 was:

Well No. N3450 - Not Running

Well No. N5368 - Present Meter Reading - 339,956,400
Previous Meter Reading - 338,829,600

1,126,800

Well No. N5390 - Not Running

Very truly yours,

A. F. Heuer Haintenance Supervisor

AF/eb

State of New York Water Resources Commission 3703 Maple Avenue, Westbury, N.Y.

Re: Well No's N3450, 5368, 5390

Gentlemen:

The water consumption of the three wells for the month of April, 1968 was:

Well No. N3450

Not Running

Well No. N5368

Present Meter Reading - 338.829,600
Previous Meter Reading - 337,884,700
844,900

Wall No. N5390

Not Running

Very truly yours,

A. P. Heuer Maintenance Supervisor

AF/ab

April 2, 1968.

State of New York Water Resources Commission 3703 Maple Avenue, Westbury, New York.

Re: Wells No's. N3450, 5368, 5390

Gentlemen:

The water consumption of the three wells for the month of March, 1968 was:

Well No. N3450

Not Running

Well No. N5368

Present Meter Reading - 337,884,700

Previous Meter Reading - 337,060,200

824,500

Well No. N5390

Not Running

Very truly yours,

A. P. Heuer Maintenance Supervisor

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March 7, 1968.

State of New York Water Resources Commission 3703 Maple Avenue, Westbury, N.Y.

Re: Well No.s N3450, 5368, 5390

Gentlamen:

The water consumption of the three wells for the month of February, 1968 was:

Well No. N-3450

Not Running

Well No. N-5363

Present Meter Reading - 337,060,200
Previous Meter Reading - 536,263,900
796,300

Well No. N-5390

Not Running

Very truly yours

A. F. Heuer

Maintenance Supervisor

AF/eb

TKR 001 10

February 5, 1968

State of New York Water Resources Commission 3703 Maple Avenue, Westbury, N.Y.

Re: Well No.s N3450, 5368, 5390

Gantlemen:

The water consumption of the three wells for the month of January, 1963 was:

Well No. N-3450

Not Running

Nall No. N5368

Present Meter Reading 336,263,900 Previous Meter Reading 335,349,200

914,700

Mal! No. N5390

Not Running

Very truly yours,

A. F. Heuer Maintenance Supervisor

AF/ab

HKK 001 135;

Re: Wells No's N3450, 5368, 5390

Gentlemen:

The water consumption of the three wells for the month of December, 1967 was:

Well No. N3450

Not Running

Well No. N5368

Present Meter Reading Previous Heter Reading 334,463,100

335,349,200

886,100

Well No. N5390

Not Running

Very truly yours,

A. F. Hauar Maintenance Supervisor

AF/eb

Re: Wells No's N3450, 5368, 5390

Gentlemen:

The water consumption of the three wells for the month of November, 1967 was:

Well No. N3450

Not Running

Well No. N5368

Present Meter Reading 334,463,100 Previous Neter Reading 333,484,700

Well No. N5390

No Running

Very truly yours,

A. F. Hauer Maintenance Supervisor

Ail/eb

November 6, 1967.

State of New York Water Resources Commission 373 Mapla Avenua Wastbury, New York.

Re: Wells No's. N3450, S368, S390

Gentlemen:

The water consumption of the three wells for the month of October, 1967 was:

Well No. N3450

Not Running

Well No. N5368

Present Meter Reading: 333,484,700
Previous Meter Reading: 332,652,500
832,200

Wall No. N5390

Not Running

Very truly yours,

A. F. Heuer
Maintenance Supervisor

AFII/eb

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Ru: Wells Nots. 33450, 5368, 5390

Contlumen:

The water consumption of the three wells for the month of Suptamer, 1967 was:

mell No. 1:3450

No Running

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Present Meter Reading 332,652,5 00 Previous Moter Reading 331,200,6 0 1,451,5 0

well 40. 35390

No Running

Very truly yours.

A. P. Heder Faintenance Supervisor

AFii/eb

September 8, 1967.

State of New York Hater Resources Commission 373 Muple Avenue Westbury, New York.

Re: Wells No's, N3450, 5368, 5390

Gautlemen:

HULU

The water consumption of the three wells for the months of June, July and August, 1967 was:

Hell No. A3450

Not Running

Well No. A5308

Present Meter Reading 331,200,600 Previous Meter Reading 326,513,600 4,687,000

Wall No. N5390

Not Running

Very truly yours,

A. F. Heuer Maintenance Supervisor

AFII/aL

Re: Wells #N3450, 5368, 5390

Gentlemen:

The water consumption of the three wells for the month of May, 1967, was:

Well #N3450

Not Running

Well #N5368

Present Meter Reading 326,513,600
Previous Meter Reading 325,171,700
1,341,900

Nell #N5390 -

Not Running

Very truly yours,

A. F. Heuer Maintenance Supervisor

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Re: Wells #N3460, 5368, 5390

Gentlamen:

The water consumption of the three wells for the month of April, 1967, was:

Well #N3450

Not Running

W=11 #N5368

Present Meter Reading 325,171,700 Previous Meter Reading 323,949,600 1,222,100

Well #N5390

Not Running

Very truly purs,

A. Heuer Maintenance Supervisor

AFIL/48d

1358

Re: Well 7N3450, 5368, 5390

Gentlemen:

The water consumption of the three wells for the month of March, 1967, was:

Well #N3450

Not Running

Well #N5368

Present Meter Reading Previous " "

323,949,600 322,748,100 1,201,500

Well #N5390

Not Running

Very truly yours,

A. F. Heuer Maintenance Supervisor

AFH/vd

Ra: Well #N3450, 5368, 5390

Gentlemen:

The water consumption of the three wells for the month of February, 1967, was:

Well #N3450

Not Runaing

#e11 #N5368

Present Meter Reading 322,748,100 - 321,619,600 - 1,128,500

Well 2N5390

Not Running

Very truly yours,

A. F. Heuer Maintenance Supervisor

AFii/vd

February 6, 1967

State Of New York Water Resources Commission 373 Maple Avenue Westbury, New York

Re: Well JN3450, 5368, 5390

Gentlemen:

The water consumption of the three wells for the month of January, 1967, was:

Nell #N3450

Not Running

Well #N5368



Present Heter Reading 321,619,600
Previous Heter Reading 320,280,500
1,339,100

Well #M5390

Not Running



Very truly yours,

A. F. Heuer Maintenance Supervisor

AFII/vd

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--. *

Re: Well #N3450, 5368, 5390

Gentlemen:

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The water consumption of the three wells for the month of December, 1966, was:

Well #113450

Not Running

Well #N5368

Present Meter Reading Previous Meter Reading

320,280,500 318,993,700 1,286,800

Well #N5390

Not Running

Very truly yours,

A. F. Heuer Maintenance Supervisor

bv/IITA

Re: <u>Yell #83450, 5368, 5390</u>

Gentlenen:

The water consumption of the three wells for the month of November, 1965, was:

Well #3450

Not Running

Well #45368

Present Meter Feading Previous Meter Reading

318,993,700 317,883,900 1,108,800

Well #45390

Not Running

Very truly yours,

A. F. Heuer Haintenance Supervisor

AFR/yd

November 8, 1966

State of New York Water Resources Commission 373 Maple Avenue Westbury, Law York

Gentlemen:

Re: Well #N3450, 5368, 5390

The water consumption of the above three wells for the month of October, 1966, was:

Well #N3450

Not Running

Well #N5368

Present Meter Reading Previous Meter Reading 317,884,900 316,729,700 1,155,200

Well #M5390

Not running

Very truly yours,

A. F. Houer Master Mechanic

AFII/vd

Re: Well #N3450, 5368, 5390

Gentlemen:

The water consumption of the above three wells for the month of September, 1966, was:

Well #N3450

Not Running

Well #N5368

Present Meter Reading Previous Moter Reading

316,729,700 gallons 315,175,200 gallons 1,554,500 gallons

Hell #N5390

Not Running

Very truly yours,

A. P. Heuer Master Mechanic

by/HFA

TAX COL 1680

Centlemen:

214

Re Well #N3450, Well #N5368, Well #N5390

The water consumption of the above three wells for the month of August, 1966 was:

<u>Vell ⊉n3450</u>	Not Running
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Wall #N5368

Present Heter Reading	315,175,200 gallona
Previous Mater Reading	312,450,800 gallons
	2,724,400 gallons

Wall #N5390 Hot Running

Very truly yours,

A. F. Heuer Haster Mechanic

AZII: ma

Gantlamen:

4!

Ra Well #13450, Well #15368, Nell #15390

The water consumption of the above three wells for the month of June, 1966, was:

Well #33450

Not Running

Mell \$35368

Present Meter Reading Previous Meter Reading 312,367,600 gallons -310,522,800 gallons 1,744,800 gallous

Well #35390

Not Running

The Hater consumption of the above three wells for the month of July, 1966, was:

1411 450450

Bot Running

Wall \$35358

Present Meter Reading Previous Heter Reading 312,450,800 gallona 312,337,500 gallona 83,200 gallona

Asah tanja Lones

A. P. Bauer Master Hedbasic

AZIL; ma

TRK 001 136

Gantlemen:

RX Wall #M3450, Wall #M5368, Wall #M5390

The water consumption of the above three wells for the month of May, 1966, was:

11-11	AUDIEA	W.A	D
MSTI	₽N3450	A CAR	Running

Wall #M5368

Present Meter Ruading	310,622,800 gallons -
Previous Meter Reading	309,635,000 gallons
	937,300 gallons

MeJ.	1 #N5390	Mot	Running

Very truly yours,

A. F. Hauer Mastar Mechanic

ar:Elk

Cantleman:

Re Well #N3450, Well #N5368, Well #N5390

The water consumption of the above three wells for the month of April, 1966, was:

Well #N3450

Not Running

Wall #M5368

Present Neter Reading Pravious Meter Reading 309,635,000 gallons 308,559,900 gallons 975,100 gallons

Wall#13390

Not Running

Very truly yours,

A. F. Beuer Master Hechanic

AZB: as

April 4, 1966 E-02-66

State of New York Water Resources Commission 373 Maple Avenue Westbury, New York

Gentlemen:

Re Well #3450, Well #35368, Well #35390

The water consumption of the above three wells for the month of March, 1966, was:

Hall 343450

Not Rusning

H-11 445368

Present Meter Reading Previous Meter Reading. 308,659,900 gallons 307,731,000 gallons 938,900 gallons

Wall #35390

Not Running

Vary truly yours,

A. F. Hemer, Heater Mechanic

AFE: WA

Gentleman:



Re Well #33450, Well #35368, Well #35390

The water consumption of the above three wells for the month of February, 1966, was:

Well #N3450

Not Running



Well #M5368

Present Meter Reading Previous Meter Reading

W-11 #N5390

307,721,000 gallons 305,349,300 gallons 871,700 gallons

Not Runaing



Very truly yours,



A. F. Heuer, Master Mechanic

AFE: NA

Gentlemen:

Reference: Well #33450, Well #35368, & Well #35390

The water consumption of the above three wells for the month of January, 1966 was as follows:

Well #N3450 -	
Meter Reading January 1	47,600 ع1.
Mater Reading February 1	47,600 gal.
Wall #N5368	
Meter Reading Vebruary 1	306,849,300 341.
Meter Reading January 1	306,067,200 gal.
Well #N5390	782,100 gal.
Meter Resding January 1	87,136,300 gal.
Mater Reading February 1	87, 136, 300 gal.

Sincerely,

August 7. Heuer Haster Mechanic

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20						

TKR 001 13/

Gentlemen:

Reference: Well #N3450, Well #N5368, and Well #N5390

The water consumption of the above three wells for the month of December, 1905 was as follows:

Well #N3450

Mater Reading December 1 Mater Reading January 1

47,600 gsl. 47,600 gal.

Well #N5368

Meter Reading December 1 Meter Reading January 1

'305,219,500 gal. 306,067,200 gal, 847,700 gallons

Well #N5340

Heter Reading December 1 Meter Reading January 1

87,136,300 gal. 87,136,300 gal.

Sincerely yours,

August F. Hauer Master Mechanic

•	-# ₁	# 2	# 3
DATE	#N3L50	#N5368	#n5390
6/60	not running	Cons. 1,744,800 M.R. 312,367,600	not running
7/66	not running	Cons. 83,200 M.R. 312,450,800	not running
8/66	not running	Cons. 2,724,400 M.R. 315,175,200	not running
9/66	not running	Cons. 1,554,500 M.R. 316,729,700	not running
10/66	not running	Cons. 1,155,200 M.R. 317,334,900	not running
11/66	not running	Cons. 1,108,800 M. R. 318,993,700	not running
12/66	not running	Cons. 1,286,800 M. R. 320,280,500	not running
1/67	not running	Cons. 1,339,100 M. R. 321,619,600	not running
2/67	not running b	Cons. 1,128,500 M. R. 322,748,100	not running
3/67	not running	M. R. 323,949,600 Cons. 1,201,500	not running
4/67	not running	M. R. 325,171,700 Cons. 1,222,100	not running
7/67	not running	M. R. 281,127,100 Cons. 297,044,600	not running
1/1/58		M.2. 335,349, 200	
1/1/09	••	" 348,069,780	
到1/59	54	1, 351, 511, 500	•

Cons. * Co Gumpsion

<u>DXI:</u>		#N3 450	# N5363		#N5390	<i>-</i>
10/64			803,800	galions	564,400	gallons
11/64			694,000	gallons	1,528,000	gallons
12/64			854,700	gallons	1,486,900	gallons
1/65	•	•	938,700	gallons	1,653,100	gallons
2/65			837,000	gallons	728,000	gallons
3/65			1,062,600	gallons	500	gallons
4/1			1,146,300	gallons	4,400	gallons
6/1/65		not running	1,255,600	gallons	not runr	ing
8/65 (May, Jo	une, Jul	not running y, August)	3,163,000	gallons	not rune	ing
9/65		not running _	1,744,300	gallons	not runn	ing
10/65	M.R. Cons.	47,600 Nov. 1 not running	M.R. 304,399 cons. 916			6,300 4,400 not running
11/65	M. R. Cons.	not running	Cons. 819, M. R. 305,219,		Cons. M. R. n	ot running
12/65	M. R. Cons.	not running	Covs 847 Cons. 306,067,	,700 200	Cons. M. R.	or running
1/56	Cons. M. R.	not running	Cons. 7,82,1 M;-R;306,849,		Bonz. N	ot running
2/66			Cons. 871, M.R. 307,721		• .	
3/56	•		Cons. 93 M. R. 308,65	8,900 59,900		
4/66			Cons. 97 M.R. 309,63	75,000 35,000		
5/56			Cons. 98	7,800 2,800		

M. R. = Meter Reading Cons. = Consumption

WOLL WATER COMSUMETION

DATE	<u>##3450</u>	<u>#115368</u>	<u>#N53</u> 90	
10/62		409,000 gal	636,100 gal	
11/62		378,700 gal	•	
12/62		379,800 gal		
1/63		476,100 gal		
2/63		353,400 gal		
3/53		505,500 gal	3-63 - 3-64. 24, 369,5	750
11./63		653,800 gal	365	: 63400
5/63		975,600 gal		9,0
6/63	·	616,200 gal		
7/63		1,493,400 gal		
8/63 9/63(combi	ined reading)	2,131,300 gal	6,745,000 gal	· · · · · · · · · · · · · · · · · · ·
10/63		969,500 gal	1,281,600 gal	
11/63		986,400 gal	572,800 gal	
12/63		929,300 gal	1,620,500 gal	
1/61,		906,700 gal	860,900 gal	1914 1917
2/64.		950,700 gal	1,086,500 gal	51,
3/64		978,500 gal	1,210,800 gal	
1,/64		1,053,200 gal	1,455,900 gal	
5/64		965,400 gal	1,652,100 gal	
6/64		1,214,000 gal		
7/64		1,427,100 gal	1,658,500 gal	
8/64	: >.		390,700 gal	
9/64			Out of Order	IK R

WELL WATER CONSUMPTION

ate	#N3450	<u>#n5368</u>	#N5390
. 51		10,783,700 Gallons	335,600 Gallons
2 '31		8,406,800 Gallons	134,800 Gallons
3/61		8,599,900 Gallons	134,300 Gallons
₊ 51		9,263,467 Gallons (Meter out of order. Above figure is an average of the past three months' total consumption for this well.)	389,000 Gallons
5/61	***	7,569,300 Gallons	240,600 Gallons
5 51	•	12,560,400 Gallons	813,800 Gallons
7/61		1,960,500 Gallons	1,387,800 Gallons
<u>/61</u>		716,000 Gallons	2,301,800 Gallons
· 61		707,000 Gallons	1,150,900 Gallons (estimated reading - well is being repaired.)
.)/61		973,900 Gallons	986,500 Galloza
11/61		1,792,100 Gallons	904,500 Gallons
_2/61		793,700 Gallons	754,600 Gallons
1/62	•	735,200 Gallons	610,100 Gallons
2/62		274,400 Gallons	522,700 Gallons
3/62		265,500 Gallons	坤2,000 Gallons
4/62		315,300 Gallons	431,900 Gallons
3110		406,100 Gallons	941,700 Gallons
5/62			
5/62 1/62	~ ?*	1,599,000 Gallons	2,482,900 Gallons
·			

WELL WATER CONSUMPTION

~	# <u>N 31.50</u>		#N5368		#N53	<u>90</u>
-0 0	8,835,100 G	allons	3,523,300	allons	1,191,100	Gallons
* }	well being	repaired	2,104,900	w	790,900	*
160	n n	18,	7,198,500	Ħ	1,230,000	n
传 ,	19 11	n	9,503,700	H .	653,100	t
6 0	8,300 G	allons	8,982,890	n	2,000	n
' Eu	16,100	77	10,803,700	. ti	537,900	n
'£	23,200	*	4,751,800	19 ·	574.200	n
'60	-	, :	12,741,900	*	566,400	*
اخ	•		10,167,200	n	1,722,500	
1/60		n	11,884,000	*	744,400	. • •
100	•		10,337,100	w	988,300	. 11
,, 0			10,271,300	Ħ	332,200	•
	* •	•				

APPENDIX 14 Additional Water-Level Monitoring Data

TABLE 1

OCCIDENTAL CHEMICAL CORPORATION HOOKER/RUCO SITE HICKSVILLE, NEW YORK

Well No.	TOC elevation (ft/msl)	Date	Depth to water (ft/btoc)	Water-level elevation (ft/msl)
A-1	137.51	01/24/92	62.88	74.63
		02/21/92	63.50	74.01
		03/27/92	63.93	73.58
		04/24/92	64.42	73.09
		05/29/92	65.96	71.55
		06/26/92	66.34	71.17
A-2	136.73	01/24/92	62.26	74.47
		02/21/92	62.83	73.90
		03/27/92	63.20	73.53
	{	04/24/92	63.80	72.93
		05/29/92	65.39	71.34
		06/26/92	65.79	70.94
B-1	132.65	01/24/92	58.30	74.35
		02/21/92	58.88	73.77
		03/27/92	59.33	73.32
		04/24/92	59.85	72.80
		05/29/92	61.42	71.23
		06/26/92	61.85	70.80
B-2	132.65	01/24/92	58.31	74.34
		02/21/92	58.88	73.77
		03/27/92	59.34	73.31
	ł	04/24/92	59.88	72.77
		05/29/92	61.43	71.22
		06/26/92	61.86	70.79
C-1	135.61	01/24/92	58.77	76.84
		· 02/21/92	NM	_
		03/27/92	58.66	76.95
		04/24/92	59.34	76.27
	}	05/29/92	62.72	72.89
		06/26/92	62.71	72.90
C-2	133.55	01/24/92	61.46	72.09
		02/21/92	NM	-
		03/27/92	62.46	71.09
		04/24/92	63.01	70.54
		05/29/92	64.65	68.90
		06/26/92	65.05	68.50

TABLE 1 (continued)

OCCIDENTAL CHEMICAL CORPORATION HOOKER/RUCO SITE HICKSVILLE, NEW YORK

	Well No.	TOC elevation	Date	Depth to water	Water-level elevation
		(ft/msl)		(ft/btoc)	(ft/msi)
	G-1	130.91	01/24/92	56.86	74.05
		•	02/21/92	57.43	73.48
			03/27/92	57.86	- 73.05
İ			04/24/92	58.39	72.52
			05/29/92	59.91	71.00
			06/26/92	60.37	70.54
	G-2	130.56	01/24/92	56.53	74.03
			02/21/92	57.09	73.47
			03 <i>/27/</i> 92	57.54	73.02
1			04/24/92	58.07	72.49
			05/29/92	59.60	70.96
			06/26/92	61.09	69.47
	H-1	130.39	01/24/92	56.62	73.77
			02/21/92	57.11	73.28
			03/27/92	57.69	72.70
			04/24/92	58.15	72.24
			05/29/92	59.35	71.04
			06/26/92	60.06	70.33
	H-2	130.17	01/24/92	56.48	73.6 9
			02/21/92	57.03	73.14
			03/27/92	57.46	72.71
			04/24/92	57.98	72.19
			05/29/92	59.54	70.63
			06/26/92	60.07	70.10
	I-1	129.68	01/24/92	56.07	73.61
			02/21/92	56.60	73.08
			03/27/92	57.02	72.66
}			04/24/92	57.53	72.15
			05/29/92	59.02	70.66
L			06/26/92	59.60	70.08
	I-2	130.02	01/24/92	56.44	73.58
1			02/21/92	56.96	73.06
1			03/27/92	57.39	72.63
}			04/24/92	57.94	72.08
			05/29/92	59.46	70.56
1			06/26/92	NM) –

TABLE 1 (continued)

OCCIDENTAL CHEMICAL CORPORATION HOOKER/RUCO SITE HICKSVILLE, NEW YORK

Well No.	TOC elevation	Date	Depth to water	Water-level elevation
	(IVIISI)		(ft/btoc)	(ft/msl)
J-1	132.29	01/24/92	58.79	73.50
		02/21/92	59.40	72.89
		03/27/92	59.78	72.51
		04/24/92	60.34	71.95
		05/29/92	61.76	70.53
		06/26/92	62.36	69.93
J-2	132.28	01/24/92	58.91	73.37
		02/21/92	59.44	72.84
#	{	03/27/92	59.83	72.45
		04/24/92	60.42	71.86
		05/29/92	61.93	70.35
		06/26/92	62.50	69.78
K-1	130.56	01/24/92	57.25	73.31
		02/21/92	57.86	72.70
		03/27/92	58.21	72.35
		04/24/92	58.79	71.77
		05/29/92	60.26	70.30
		06/26/92	60.84	69.72
K-2	130.55	01/24/92	57.29	73.26
		02/21/92	57.85	72.70
		03/27/92	58.21	72.34
		04/24/92	58.83	71.72
		05/29/92	60.29	70.26
		06/26/92	60.92	69.63
L-1	131.52	01/24/92	57.66	73.86
L-1		02/21/92	58.28	73.24
		03/27/92	58.66	72.86
		04/24/92	59.24	72.28
		05/29/92	60.73	70.79
		06/26/92	61.25	70.27
L-2	131.68	01/24/92	57.99	73.69
		02/21/92	58.57	73.11
		03/27/92	58.94	72.74
		04/24/92	59.55	72.13
		05/29/92	61.12	70.56
1		06/26/92	61.14	70.54

TABLE 1 (continued)

OCCIDENTAL CHEMICAL CORPORATION HOOKER/RUCO SITE HICKSVILLE, NEW YORK

Well No.	TOC elevation (ft/msl)	Date	Depth to water (ft/btoc)	Water-level elevation (ft/msl)
M-1	135.61	01/24/92	61.36	74.25
		02/21/92	61.98	73.63
		03/27/92	62.37	73.24
		04/24/92	62.92	72.69
		05/29/92	64.45	71.16
		06/26/92	64.92	70.69
N-1	134.23	01/24/92	59.16	75.07
		02/21/92	NM	_
		03/27/92	60.26	73.97
		04/24/92	60.67	73.56
		05/29/92	61.99	72.24
		06/26/92	62.46	71.77
0-1	134.75	01/24/92	60.18	74.57
		02/21/92	60.88	73.87
		03/27/92	61.27	73.48
		04/24/92	61.76	72.99
		05/29/92	63.15	71.60
	<u> </u>	06/26/92	63.65	71.10
P-1	132.32	01/24/92	58.52	73.80
		02/21/92	59.12	73.20
		03/27/92	59.50	72.82
		04/24/92	60.05	72.27
		05/29/92	61.58	70.74
		06/26/92	NM	-
Q-1	132.70	01/24/92	58.68	74.02
		02/21/92	59.29	73.41
]	03/27/92	59.72	72.98
	1	04/24/92	60.22	72.48
		05/29/92	61.72	70.98
		06/26/92	62.22	70.48
R-1	136.07	01/24/92	60.91	75.16
		02/21/92	61.65	74.42
		03/27/92	62.02	74.05
		04/24/92	62.46	73.61
		05/29/92	63.83	72.24
		06/26/92	64.05	72.02

TABLE 1 (continued)

OCCIDENTAL CHEMICAL CORPORATION HOOKER/RUCO SITE HICKSVILLE, NEW YORK

Summary of Monthly Water-Level Measurements

Well No.	TOC elevation	Date	Depth to water	Water-level elevation
	(ft/msl)		(ft/btoc)	(ft/msi)
S-1	133.21	01/24/92	57.27	75.94
		02/21/92	57.98	75.23
		03/27/92	58.22	74.99
		04/24/92	58.66	74.55
		05/29/92	59.91	73.30
		06/26/92	59.99	73.22
S-2	133.21	01/24/92	58.68	74.53
		02/21/92	59.17	74.04
		03/27/92	59.67	73.54
		04/24/92	60.07	73.14
		05/29/92	61.77	71.44
		06/26/92	62.13	71.08
T-1	131.21	01/24/92	57.01	74.20
		02/21/92	57.69	73.52
		03/27/92	58.06	73.15
		04/24/92	58.63	72.58
		05/29/92	60.16	71.05
		06/26/92	60.67	70.54
T-2	131.37	01/24/92	57.41	73.96
		02/21/92	58.03	73.34
		03/27/92	58.40	72.97
		04/24/92	59.03	72.34
		05/29/92	60.67	70.70
	ļ	06/26/92	60.60	70.77
N-10812	135.54	01/24/92	60.43	75.11
		02/21/92	60.99	74.55
		03/27/92	61.44	74.10
		04/24/92	61.98	73.56
		05/29/92	63.57	71.97
		06/26/92	63.87	71.67
N-10593	128.50	01/24/92	55.07	73.43
		02/21/92	55.67	72.83
		03/27/92	56.04	72.46
		04/24/92	56.59	71.91
		05/29/92	58.02	70.48
		06/26/92	58.63	69.87

OCCIDENTAL CHEMICAL CORPORATION HOOKER/RUCO SITE HICKSVILLE, NEW YORK

Summary of Monthly Water-Level Measurements

Well No.	TOC elevation (ft/msl)	Date	Depth to water (ft/btoc)	Water-level elevation (ft/msl)
PM-1	132.87	01/24/92 02/21/92 03/27/92 04/24/92 05/29/92 06/26/92	58.66 59.29 59.75 60.25 61.63 62.12	74.21 73.58 73.12 72.62 71.24 70.75
PM-2	127.99	01/24/92 02/21/92 03/27/92 04/24/92 05/29/92 06/26/92	54.92 55.56 55.96 56.45 NM NM	73.07 72.43 72.03 71.54
Airfield well (N10594)	126.66	01/24/92 02/21/92 03/27/92 04/24/92 05/29/92 06/26/92	53.98 54.52 54.85 55.49 56.85 57.50	72.68 72.14 71.81 71.17 69.81 69.16
S.D. Bay Well (N10599)	107.60	01/24/92 02/21/92 03/27/92 04/24/92 05/29/92 06/26/92	40.81 40.94 41.68 41.92 41.80 41.19	66.79 66.66 65.92 65.68 65.80 66.41
USGS Basin Well (out) (N10597)	109.85	01/24/92 02/21/92 03/27/92 04/24/92 05/29/92 06/26/92	40.17 40.56 40.94 41.48 42.04 42.44	69.68 69.29 68.91 68.37 67.81

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APPENDIX 15
Surveyor's Report

Nassau County Bench Marks Department of Public Works

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Highways & General Engineering

NASSAU COUNTY BENCH MARKS Introduction

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MIKE Yours I

535-4553

Bench marks listed in this book have been established by the topographic Section of the Department of Public Works.

PROCEDURE:

Prior to 1932, all spirit level work throughout the County was done by using an arbitrary datum, differing according to locality and the engineer doing the work.

Cognizant of the need for a uniform datum, the County Engineer, in 1932 caused to be established a County-wide system of Ver call Control; one result of this project was the publication of the first edition of the "County of Nassau Bench Marks" book in 1934.

DATUM:

The datum plane used on this project is based on mean sea level a Sally Blok, New Jersey, as determined by the United States Coast as Geolegic Survey by observations and records of tidal gauges period of years. Mean sea level is the average height of the stages of the tide being considered.

As there were several of the United States Coast and Gendetic Sour vey bench marks located throughout the County, the "Cour marks Control" network was expanded from these.

BENCH MARK INDENTIFICATION:

The County Standard bench mark monument set prior the standard pyramid being four feet deep with an eight inches and an eight inch square top. A bronze cylindrical plug three starters of an inch in diameter and one and three quarters of an inch inches inserted to a depth to allow protrusion approximately one eighth of an inch above the top of the concrete. The elevation given is the top of this plug.

All monuments set since 1949 have a disc similar in size and shap to the United States Coast and Geodetic survey bronze disc. Its face stamped as follow: Department of Public Works, Nassin County, Bench Mark, Elev...FT...;\$250 fine for disturbing this mark. The elevation given is at the top center of the disc. Other primary be che marks have been established on solid structures such as cauch basins, head walls, etc., a cut in the concrete defines the point of elevation.

ACCURACY OF ELEVATIONS:

All elevations in this book are to the nearest thousandths of a foot above the County datum.

All leveling was held well within the specifications of the first order leveling of the Board of Surveys and maps of the Federal Government. The allowable error of closure under the specifications mentioned above is 0.017 feet per circuit mile. The actual average error of closure in Nassau County was 0.0097 feet per circuit mile based on the original network of 435 linear miles.

The allowable error as established by Nassau County for all circuits was governed by the following formula: Four ten housandths times the square root of the distance in feet. (0.0004 distance in feet)

CHANGE IN BENCH MARKS:

Although a bench mark may appear to be quite permanent in character, the elevation may have been changed due to settling or other uncontrollable circumstances. Engineers are therefore cautioned to tie in with two or more bench marks whenever possible.

NASSAU COUNTY DUPT. OF PUBLIC WORKS - BENCHMARKS

14503 G395 HICKSVILLE OYSTER BAY 08/76 26 SO. CUT ON WEST CURB OF BROADWAY DIRECTLY IN POLE NO. 22. 358 NORTH OF CENT. LINE OF FARM LN. ZLEV. 134.965 FRONT OF LILCO. PO CK 9/69 RN 8/76 GR _4_04 G396 HICKSVILLE OYSTER BAY 08/76 26 ELEV. 114.179 SO. CUT ON CONC. FOOTING OF FENCE ON NORTHEAST CORNER OF SUMP NO. 159 25.5' WEST OF CENT. LINE OF BLOOMINGDALE RIGHT OF CENT. LINE OF MICHIGAN DRIVE 200' SOUTH OF CENT. LINE INTERSECTION WITH BROAD VAY CK 5/67 MX 8/76 GR 14S05 G399 BETHPAGE OYSTER BAY 08/76 26 ELEV. 116.134 SQ. CUT ON SOUTHWEST CORNER OF LIGHT STANDAY VEEDOL GAS STA. 30 EAST OF CENT. LINE OF HICKSVILLE RD. 139 NORTH OF CENT. LINE OF LOUIS ST. CK 11/57 WA 8/62 MX 1/64 MX 5/67 MX 8/76 GR 14S06 G395A HICKSVILLE OYSTER BAY 02/78 ELEV. 134.987 SC. CUT ON THE WESTSIDE OF CONC. CURB OF LEE AVE. ON THE EXT'D CENT. LINE OF FARM LANE. CK 2/78 GR 14807 G516 HICKSVILLE OYSTER BAY 08/76 ELEV. 131.368 SQ. CUT ON WEST WALL CENT. OF 16.7'X10.7' CONC. METER PIT 30.5' EAST OF CENT. LINE OF NEW SOUTH RD. ON NORTH SIDE OF ENTRANCE OF RUBBER CORPORATION OF AMERICA 315' NORTH OF CENT. LINE OF DOUBLE TRACKS OF RAILROAD 9.5' SOUTH OF LILCO. POLE NO. 19. CR 5/67 MX 8/76 GR 14508 G519 HICKSVILLE OYSTER BAY 08/76 ELEV. 119.988 SQ. CUT IN CENT. OF SIDEWALK 40' EAST OF CENT. LINE OF TRAVELED RJ. OF NEW SOUTH RD. 30' SOUTH OF CENT. LINE OMULBERRY ST. CK 12/57 MX 8/62 MX 5/67 MX 8/76 GR 14S09 G653 HICKSVILLE OYSTER BAY 08/62 26 ELEV. 111.474 SO. CUT ON SOUTH WALL OF CATCHBASIN 18' WEST OF CENT. LINE OF BLOOMINGDALE RD. 53' SOUTH OF NYT POLE NO. 10J 557' SOUTH OF CENT. LINE OF MICHIGAN DRIVE 157' NORTH OF CENT. LINE OF SCHRIMPE COURT CK 8/62 MX 26 14510 H284X HICKSVILLE OYSTER BAY 08/76 ELEV. 124.807 SQ. CUT ON NORTH CURB OF GERALD ST. 96.5' EAST OF CENT. LINE OF BROADWAY CK 9/69 RN 8/76 GR 14S11 H521 OYSTER BAY HICKSVILLE 02/78 26 ELEV. 133.176 SQ. CUT ON WEST CURB OF BROADWAY 47.5' SOUTH OF CENT. LINE OF LEWIS ST. DIRECTLY IN FRONT OF LILCO. POLE NO. 29. CK 9/69 RN 2/78 GR 14S12 H523 HICKSVILLE 02/78 26 OYSTER BAY ELEV. 125.451 SQ. CUT ON EAST CURB OF GARDEN BLVD. ON EXT'D. CENT. LINE OF BALSAM LN. CK 12/69 RN 2/78 GR

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Fri Feb 16 09:04:02 1990

Point		oordinates	Elevation	Desc / Type
290	N E	213731 0 194316	132.96	M-1
320	N E	2136768 194488	130.50	B-1
321	N E	2136768 194488	130.49	B-2
322	N E	2136922 194178	130.47	Q-1
323	N E	2136821 194251	128.98	G-1
324	N E	21368 0 9 19426 0	128.90	G-2
326	N E	213717 0 193937	130.75	H-1
327	N E	2137164 193943	130.65	H-2
335	N E	213764 0 194248	132.79	0-1
339	N E	2137655 194030	130.11	D-1
341	N E	2137655 194 0 30	130.05	D-2
348	N E	2137634 193893	130.00	P-1
350	N E	2137685 193872	130.19	E-2
361	N E	2137634 193642	129.84	F-2
363	N E	2137547 19364 9	129.82	J-1
366	N E	2137541 193643	129.68	J-2
370	N	2137339	130.38	I-1

	E	193796		
372	N E	2137333 193800	130.40	1-2
409	n E	2137683 193569	128.6	K-1
410	n E	2137678 193575	128.8	K-2
412	n E	2137709 193970	129.9	L-1
413	n E	2137709 193980	129.94	L-2
421	N E	2137936 194232	131.68	T-1
422	n E	2137935 194243	131.75	T-2
424	N E	2137635 194693	133.54	S-1
425	N E	2137634 19 470 2	133.61	S-2
427	n E	2137538 19 45 51	134.04	R-1
432	N E	2137558 19 43 53	131.7	C-2
434	N E	2137539 194346	131.5	N-1
440	N E	213764 0 19 424 8	132.83	0-1
381	N E	2137495 19 456 2	134.16	A-1
27	n E	2136158 19317 0	128.34	PM-2
29	n E	2136 0 38 194124	133.14	PM-1

1"=50' DWG

Drawing: 'OXYPNTS' (OXY50.DAT)

Wed Jan 31 10:35:46 1990

	,			
Point	=====	Coordinates	Elevation	Desc / Type
225	N E	194544.61 2136941.86	136.00	AM-1 AIR MONITOR
242	N E	193996.05 2137 0 96.99	134.59	AM-5 AIR MONITOR
301	N E	194442.40 2137555.57	135.72	AM-2 AIR MONITOR
329	N E	194029.61 2137653.39	133.17	AM-3 AIR MONITOR
354	N E	193692.85 2137589.27	132.31	AM-4 AIR MONITOR
226	N E	194477.19 2136937.99	132.1	SG-2
227	N E	194427.07 2136940.57	131.6	SG-3
228	N E	194377.21 2136942.86	131.4	SG-4
229	N E	194327.25 2136945.04	130.9	SG-5
230	N E	194277.37 2136947.33	130.9	SG-6
231	N E	194227.42 2136949.07	130.7	SG-7
232	n E	194177.50 2136951.08	130.2	SG-8
236	N E	194128.55 2137003.02	130.8	SG-9
239	N E	194129.68 2137 0 53.53	131.9	SG-16
246	N E	194131.17 2137103.06	131.7	SG-19
252	N E	194181.05 2137101.23	131.4	SG-18 001
251	N E	194182.50 2137151.34	132.5	SG-20 G

271	N E	194576.95 2136933.01	133.2	SG-1
253	N E	194179.45 2137051.20	131.1	SG-15
254	N E	194178.50 2137001.21	130.8	SG-10
255	N E	194231.41 21 3700 2.31	130.9	SG-11
256	N E	194229.78 2137 0 49.14	131.0	SG-14
257	N E	194278.44 2136997. 0 8	131.4	SG-12
263	N E	194279.62 2137 0 47. 0 9	132.0	SG-13
267	N E	194231.11 2137099.21	132.0	SG-17
401	N E	1937 04 .26 2137583.72	128.9	SG-61
426	N E	194566.52 2137242.56	133.8	SG-53
428	N E	194593.95 21376 0 4.89	133.8	SG-58
429	N E	194436.03 2137393.28	132.7	SG-77
430	N E	194373.07 2137561.48	131.6	SG-80
431	N E	194465.73 2137544.92	133.6	SG-79
435	N E	194510.87 2137286.10	133.6	SG-23
436	N E	194360.89 2137274.83	132.4	SG-36
438	N E	194186.38 2137658.51	131.4	SG-50
439	N E	194238.33 2137647.71	132.1	SG-49
441	N E	194335.11 2136888.82	130.0	SG-37

442	N E	194185.82 2136895.73	130.3	SG-40
405	N E	193789.63 2137651.24	124.6	SG-67
338	N E	19 40 29.70 2137655.00	132.35	D-1 MON WELL
201	n E	194488.16 2136767.55	132.65	B-1 MON WELL
202	N E	194488.37 2136767.74	132.65	B-2 MON WELL
214	N E	194177.62 2136921.66	132.70	Q-1 MON WELL
222	N E	194250.82 2136821.23	130.91	G-1 MON WELL
224	N E	194259.77 21368 0 9.14	130.56	G-2 MON WELL
244	N E	193937.20 2137169.72	130.39	H-1 MON WELL
245	N E	193943.31 2137164.17	136.17	H-2 MON WELL
276	N E	194315.98 2137309.86	135.61	M-1 MON WELL
383	N E	193871.56 2137684.88	132.98	E-1 MON WELL
349	N E	193871.85 2137684.9 6	132.71	E-2 MON WELL
360	N E	193641.67 2137634.01	131.54	F-2 MON WELL
362	N E	193639.71 2137546.68	132.29	J-1 MON WELL
365	N E	193642.66 2137541.48	132.28	J-2 MON WELL
371	N E	1938 00 .16 2137333.14	130.02	I-2 MON WELL
382	N E	194603.70 2137301.17	136.73	A-2 MON WELL
369	N E	193795.99 2137338.82	129.68	I-1 MON.WELL
340	N	194029.61	132.21	D-2 MON WELL

	E	2137655.33		
380	N E	194603.30 2137301.10	137.51	A-1 MON.WELL
358	N E	193641.72 2137633.60	131.81	F-1 MON.WELL
347	N E	193893.35 2137634.40	132.32	P-1 MON WELL
452	N E	194352.78 2137558.16	133.55	C-2 MON WELL
453	N E	194352.71 2137558.46	135.61	C-1 MON WELL
454	N E	194345.53 2137539.08	134.23	N-1 MON WELL
419	N E	193876. 0 7 213755 0 .26	132.00	PLANT WELL #3
455	N E	194247.60 2137640.38	134.75	0-1 MON WELL
451	N E	194551.34 2137537.56	136.07	R-1 MON WELL
278	N E	194402.73 2137305.09	133.5	TB-25
283	N E	19 4 571.99 21376 0 5.19	134.1	TB-22
288	N E	194442.53 2137396.96	134.1	TB-26
291	N E	194496.62 2137420.79	133.5	TB-27
298	N E	194461.11 2137612.62	133.02	TB-20
299	N E	194519.27 21376 0 8.54	133.5	TB-21
302	N E	194415.94 2137543.80	132.49	TB-19
3 0 6	N E	194368.08 2137543.63	131.66	TB-18
307	N E	194349.83 2137581.46	126.6	TB-28
308	N E	1943 0 8.96 2137611.59	125.4	TB-29

/						
	310	N E	194115.37 2137491.39	129.69	TB-39	
	311	N E	194150.86 2137494.33	130.49	TB-40	
	312	N E	194109.70 2137557.08	129.97	TB-12	
	313	N E	194111.14 2137584.35	130.2	TB-13	
	314	N E	194080.59 2137663.94	129.85	TB-8	
	315	N E	194107.12 2137662.08	130.5	TB-9	
	316	N E	193998.21 2137458.81	130.68	TB-37	
	317	N E	193987. 04 2137473.17	130.8	TB-38	
,	330	N E	194148.43 2137621.38	130.92	TB-17	
	331	N E	194163.76 21376 0 1.62	131.08	TB-15	
	332	N E	194131.06 2137601.86	130.66	TB-14	
	333	N E	194183.95 2137611.15	131.0	TB-16	
	336	N E	194165.28 2137654.22	130.8	TB-11	
	337	N E	194142.87 2137662.18	130.7	TB-10	
٠.	342	N E	193999. 04 2137575.72	129.7	TB-35	
	343	N E	194000.53 2137559.07	129.8	TB-34	
	344	N E	193944.34 2137646.36	117.9	TB-31	HKR
	345	N E	193916.42 2137651.59	117.0	TB-30	001
	346	N E	193899. 0 1 2137627.13	129.9	TB-P1	1397
						7

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	351	N E	193804.28 2137567.20	130.2	TB-24
	352	N E	193733.70 2137587.66	126.0	TB-23
	353	n E	193661.34 2137574.65	129.8	TB-2
	355	N E	193740.16 2137640.58	124.5	TB-5A
,	356	N E	193745.65 2137643.22	125.1	TB- 5
<i>,</i>	357	N E	1937 0 7.79 2137696.13	116.7	TB-32
	367	N E	193677.67 21375 0 2.78	129.7	TB-1
	373	N E	194019.10 2137488.69	130.14	TB-36
	374	N E	193677.91 2137673.34	116.0	TB-33
•	375	N E	193792.19 213753 0 .33	130.6	TB-7
	376	N E	193806.32 2137508.94	131.0	TB-6
	377	N E	193767.78 2137456.77	129.8	TB-3
	378	N E	193749.65 2137483.60	129.5	TB-4
	221	n E	194242.34 2136821.9 6	128.9	TB-GP
	243	N E	19393 0 .88 2137175.86	130.77	TB-HP
	364	N E	193636.2 0 2137553.93	129.38	TB-JP
	368	n E	193791.27 2137344.82	130.25	TB-IP
	402	N E	193710.48 2137568.84	128.9	TB-43 平 R
	403	N E	193789. 0 9 2137579.29	129.8	TB-41 001
	404	N	193801.37	129.6	TB-44 1398

		E	2137666.95		
	406	N E	1937 0 3.95 2137637.92	129.3	TB-46
	407	N E	193664.93 2137580.02	129.7	TB-45
	414	N E	193959.50 2137608.42	129.9	TB-49
·	415	n E	193980.95 2137678.13	129.4	TB-5 0 A
	416	n E	193879.94 2137662.76	/ ** (129.2	TB-48
	417	n E	1938 0 5.57 2137559.38	130.7	TB-42
	418	n E	193841. 0 5 2137561.95	131.2	TB-47
	272	n E	194587.09 2137306.89	134.0	BB
	273	N E	194567.36 21373 0 8.53	133.8	СС
	274	N E	194551.76 2137310.96	133.7	DD
	275	N E	194560.10 2137407.67	134.3	FF
	277	N E	194530.89 21373 0 4.98	133.7	GG
	279	N E	194574.44 2137532.98	133.5	EE
	280	N E	194545.66 2137587.84	133.8	FF-1
•	281	N E	194546.70 2137608.32	133.6	EE-1
•	285	N E	194384.45 2137376. 0 5	131.8	00
	286	N E	1944 0 3.34 2137388.08	131.9	NN S
•	287	n E	194421.64 2137406.82	132.6	MM
	289	N E	194440.46 2137422.78	132.6	LL

HKR 001 1399

		290	N E	194459.15 2137437.33	133.0	KK
-		292	N E	194518.21 2137437.53	137.1	нн
		293	N E	194530.40 2137530.59	133.6	GG- 1
,		294	N E	194513.59 2137522.13	133.8	HH-1
		295	N E	194489.39 2137537.50	133.8	II-1
		296	N E	194453.58 2137510.58	133.2	KK-1
		297	N E	194434.42 2137486.87	132.9	JJ-1
		300	N E	194618.04 2137619.65	134.2	BB-1
		303	N E	1944 0 9.28 2137548.68	132.3	MM- 1
		304	N E	194389.3 0 2137546.63	132.6	NN-1
		305	N E	194369.47 2137544.66	131.5	00-1
		318	N E	194637.58 2137617.09	133.9	AA- 1
		309	N E	194597. 04 2137621.1 0	133.8	CC-1
		203	N E	194336.49 213679 0 .88	129.8	A
		204	N E	194331.12 2136811.02	129.4	В
		205	N E	194333.97 2136830.44	129.3	C HKR
		206	n E	194334.18 2136850.17	129.4	D 001
	e e e e e e e e e e e e e e e e e e e	207	n E	194335.38 2136870.16	129.6	E 1400
		209	n E	194337.45 2136900.13	130.1	FG

210	N E	194339.76 2136910.62	130.4	G
211	N E	19434 0 .89 2136930.13	130.9	H
212	N E	194158.34 2136936.55	130.4	H-1
213	N E	194170.79 2136919.52	130.3	G-1
215	N E	194178.37 21369 0 9.29	130.2	FG-1
216	N E	194185.72 2136895.56	130.2	F-1
217	N E	194199.38 2136879.37	129.8	E-1
218	N E	194210.89 2136861.95	129.7	D-1
219	N E	194223.29 2136843.99	129.5	C-1
220	N E	194234.88 2136824.86	129.2	B-1
223	N E	194249.77 21368 0 8.3 0	128.9	A-1
233	N E	194141.50 2136957.81	130.5	I-1
234	N E	194140.50 2136977.80	130.7	J-1
235	N E	194137.38 2136996.90	131.2	K-1
237	N E	194137.94 2137 0 17.88	131.3	L-1
238	N E	194137.32 2137 0 37.98	131.7	M-1
240	N E	194136.63 2137 0 57.77	131.7	N-1
241	N E	194135.72 2137078.08	132.0	0-1
247	N E	194135.46 2137 0 97.92	132.2	P-1
248	N	194139.70	132.0	Q-1

	E	2137117.82		
249	N	194142.00	132.3	R-1
	E	2137137.79		
250	N	194149.36	132.3	S-1
	E	2137156.93		
258	N	194341.57	131.3	I
	E	2136950.84		
259	N	194332.31	131.6	J
	E	2136971.82		
260	N	194321.36	131.5	K
	E	2136990.83		
261	N	194311.12	131.8	L
	E	2137011.34		
262	N E	194293.28 2137 0 31.82	132.0	M
				
264	N E	194280.41 2137 0 52.27	132.2	N
	_			
265	n E	194263.65 213 76 72.63	132.1	0
				_
266	n E	194245.32 2137 0 93.02	132.2	P
			400 -	_
268	N E	194228.23 2137114.02	132.5	Q
260	M	194211.95	132.1	R
269	N E	2137134.30	132.1	K
270	N	194195.64	132.6	s
2/0	E	2137155.05	132.0	3
220			124 A	AA
379	N E	1946 0 6.48 2137298.66	134.0	AA
	-			

Drawing: ' OXY200

Wed Jan 31 10:34:19 1990

Point		Coordinates	Elevation	Desc / Type
408	N E	193562.41 2137687.73	128.6	КР
411	N E	193957.63 2137711.67	129.8	LP
423	N E	194685.62 2137634.04	133.6	SP
420	N E	19 4225.20 21 37935.92	131.6	TP
338	N E	19 4029.70 2137655.00	132.35	D-1 MON WELL
201	N E	194488.16 2136767.55	132.65	B-1 MON WELL
202	N E	194488.37 2136767.36	132.65	B-2 MON WELL
214	N E	194177.62 2136921.66	132.76	Q-1 MON WELL
222	N E	19 4250.82 2136821.23	130.91	G-1 MON WELL
224	N E	194259.77 21368 0 9.14	130.56	G-2 MON WELL
244	N E	193937.2 0 2137169.7 2	130.39	H-1 MON WELL
245	N E	193943.31 2137164.17	130.17	H-2 MON WELL
276	N E	194315.98 21373 0 9.86	135.61	M-1 MON WELL ✓
334	N E	194247.91 2137640.39	134.75	0-1 MON WELL
383	N E	193871.56 2137684.88	132.98, 7 4.	E-1 MON WELL
349	N E	193871.85 2137684.90	132.71	E-2 MON WELL

360	N E	193641.67 2137634.01	131.54	F-2 MON WELL
362	N E	193639.71 2137546.68	132.29	J-1 MON WELL
365	N E	193642.66 2137541.48	132.28	J-2 MON WELL √
371	N E	1938 00. 16 2137333.14	130.02	I-2 MON WELL ✓
382	N E	19 4603.70 2137301.17	136.73	A-2 MON WELL
369	N E	193795.99 2137338.82	129.68	I-1 MON.WELL√
340	N E	19 46 29.61 2137654.67	132.21	D-2 MON WELL
380	N E	194603.30 2137301.09	137.51	A-1 MON.WELL
358	N E	193641.72 2137633.60	131.81	F-1 MON.WELL
347	N E	193893.35 2137634.40	132.32	P-1 MON WELL
443	N E	193569. 0 7 2137682.51	130.56	K-1 MON WELL
444	n E	193575.20 2137678.20	130.55	K-2 MON WELL
445	n E	19397 0. 12 21377 0 9.17	131.52	L-1 MON WELL
446	n E	193979.55 2137709.20	131.68	L-2 MON WELL
447	n E	194232.31 2137935.62	131.21	T-1 MON WELL
448	n E	194243.00 2137934.57	131.37	T-2 MON WELL
449	N E	194693.41 2137634.91	133.21	S-1 MON WELL
450	N E	194702.04 2137633.80	133.21'	S-2 MON WELL

				_
452	N	194352.78	- 133.55	C-2 MON WELL
	E	2137558.16	135.55	
453	M	104252 71	135.61	C-1 MON WELL
453	N E	194352.71 2137558.46	133.01	C-1 MON WELL
	-	2237333113		
454	N	194345.53	134.23	N-1 MON WELL √
	E	2137539.08		
410	N	193876.07	132.00	DIAME WELL #4
419	N			PLANT WELL
	E	2137550.26	- 7.801	
451	N	194551.34	136.07	R-1 MON WELL
	E	2137537.56		,
28	N	194046.41	132.87	PM-1 MON WELL
	E	2136048.93		
20	.,	104102 66	127 00	DV 2 1/411
29	N	194123.66	127.99	PM-2 MON WELL
	E	2136038.13		

Kuren hn N10812 135.54 A.rfield N10594 126.66 RRX N10593 128.50 Junco N10598 106.48

Inside usus

N10630 -? 110.66

outside

N10597 - 109.85

107-50BR

N10599 - 107.60

Best Cas

130.50



LEGGETTE, BRASHEARS & GRAHAM, INC.

72 Danbury Road Wilton, CT 06897 (203) 762-1207 FAX (203) 762-8062